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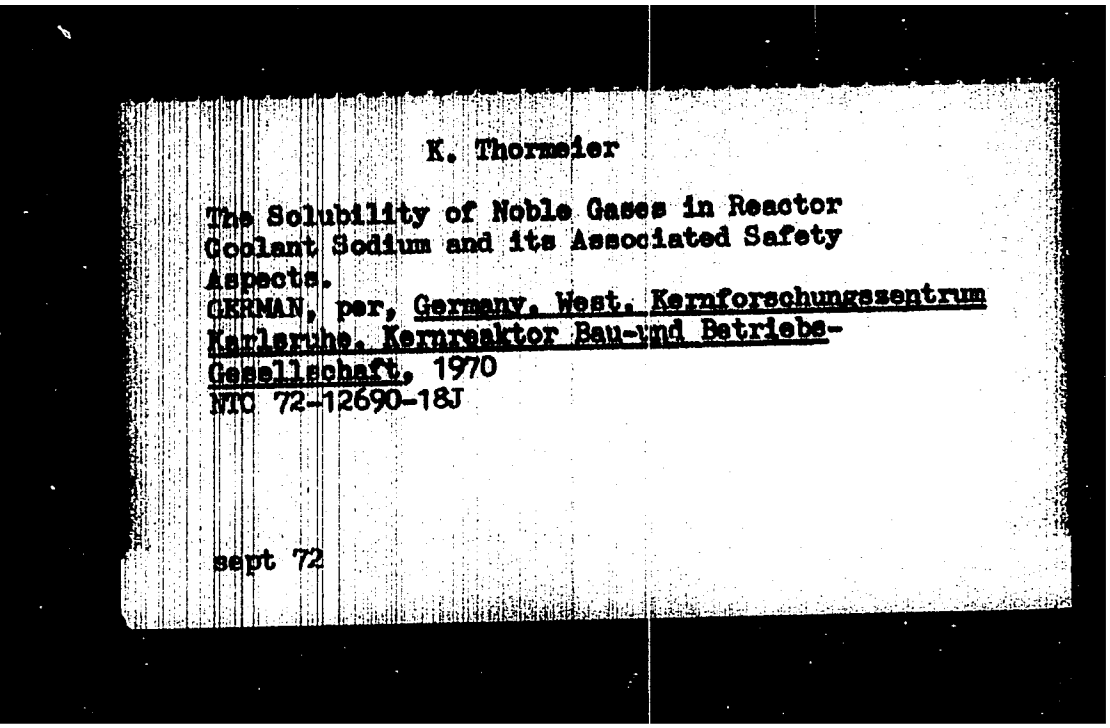

K. Thormeier

The Solubility of Noble Gases in Reactor Coolant Sodium and its Associated Safety Aspects.
GERMAN, per, Germany, West, Kernforschungszentrum Karlsruhe, Kernreaktor Bau-und Betriebs-Gesellschaft, 1970
NTC 72-12690-18J

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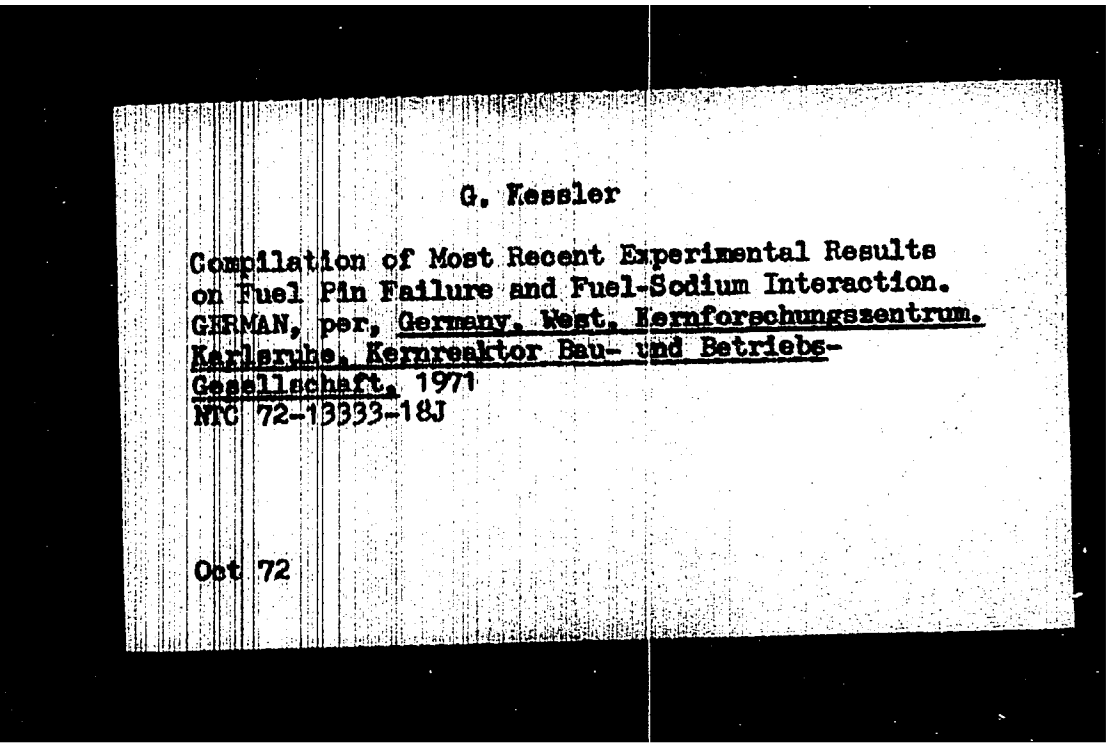

G. Kessler

Compilation of Most Recent Experimental Results on Fuel Pin Failure and Fuel-Sodium Interaction. GERMAN, per, Germany, West, Kernforschungszentrum, Karlsruhe, Kernreaktor Bau- und Betriebs-Gesellschaft, 1971
NTC 72-13333-18J

Oct 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201390043-6

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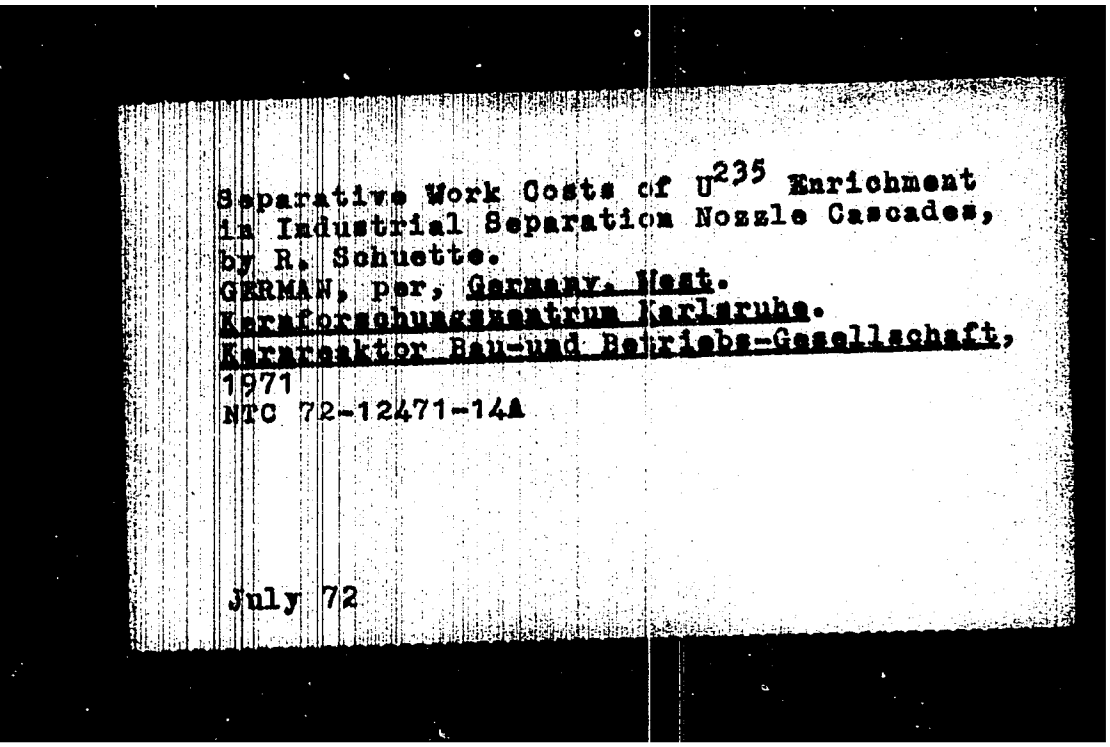

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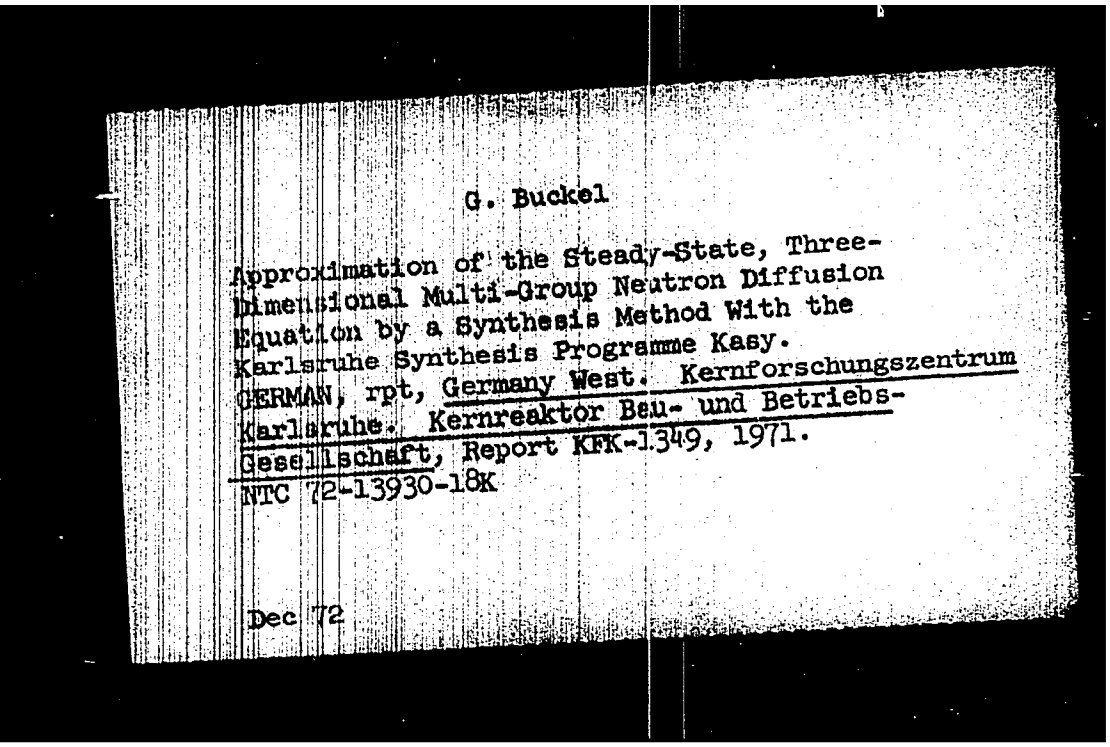

G. Buckel

Approximation of the Steady-State, Three-Dimensional Multi-Group Neutron Diffusion Equation by a Synthesis Method With the Karlsruhe Synthesis Programme Kasy.

GERMAN, rpt, Germany West. Kernforschungszentrum Karlsruhe. Kernreaktor Bau- und Betriebs-Gesellschaft, Report KFK-1349, 1971.

NTC 72-13930-18K

Dec 72

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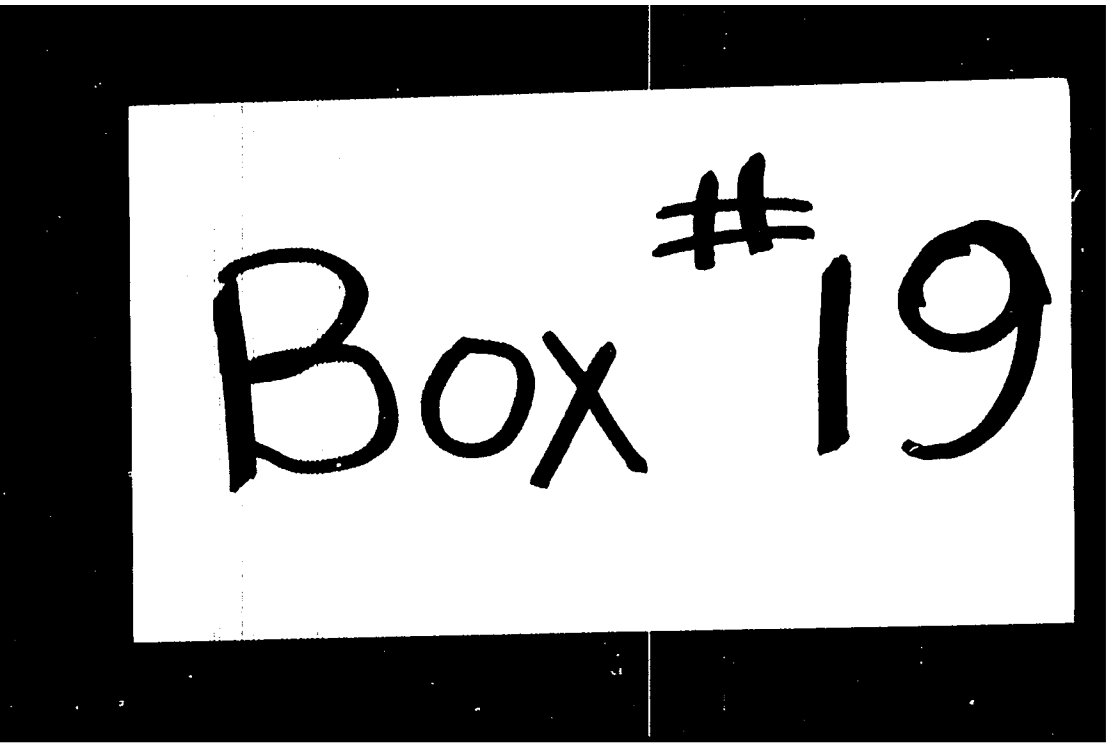

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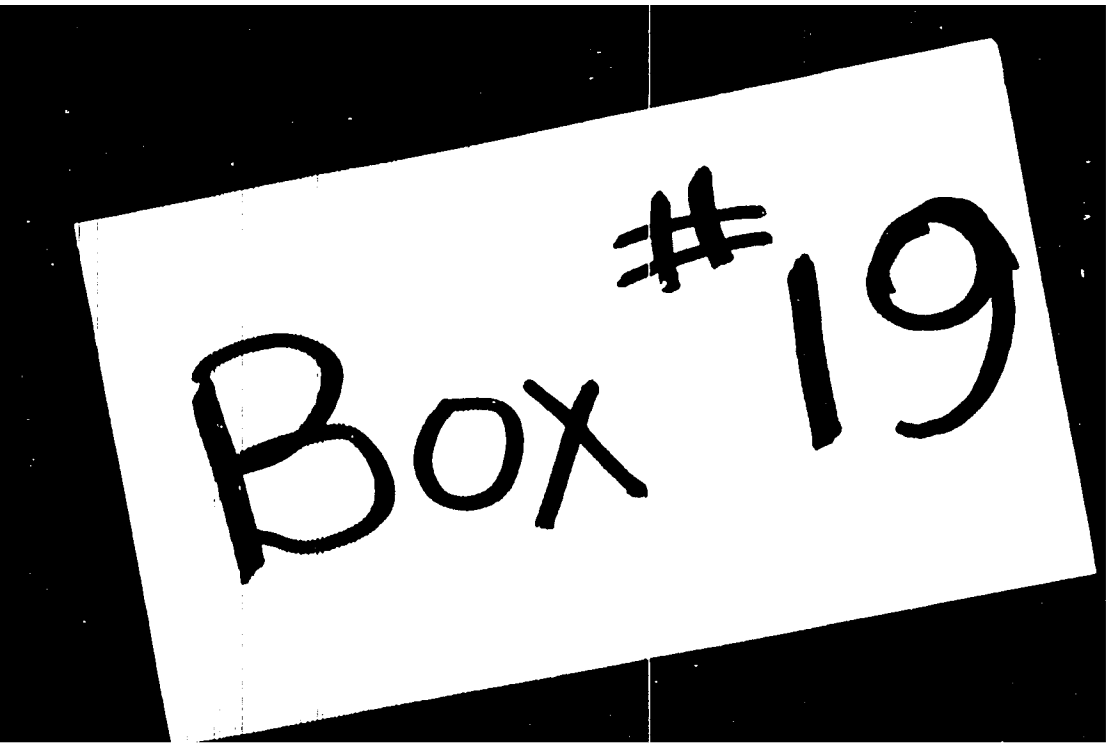

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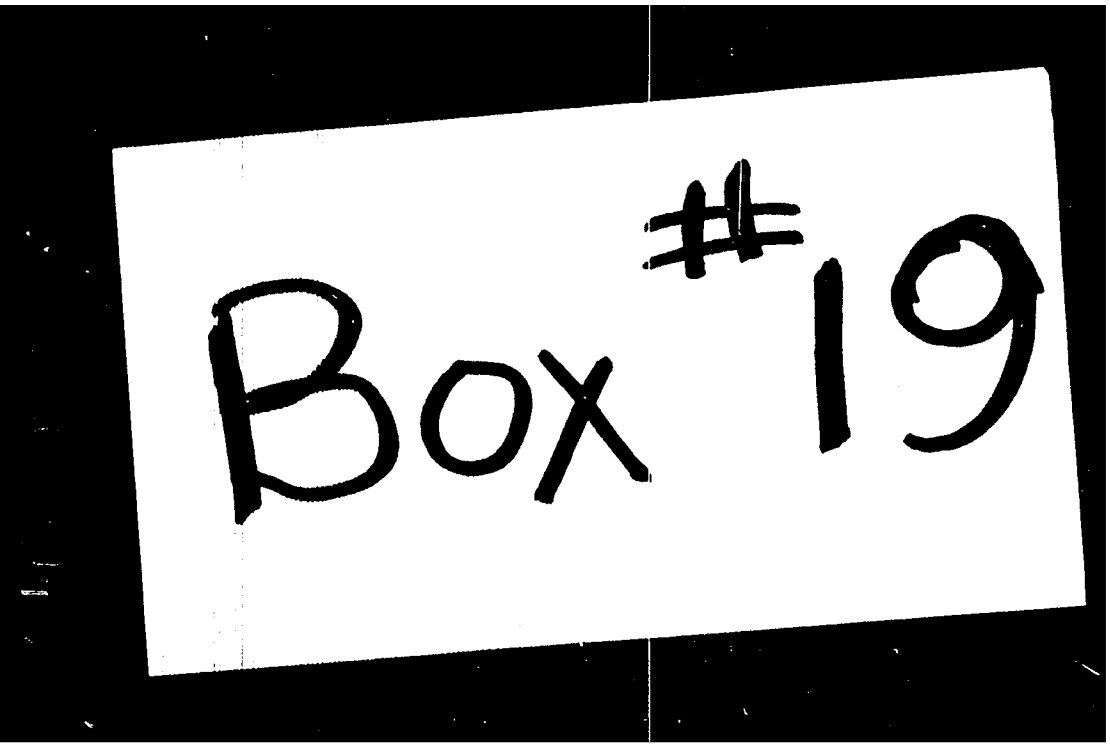

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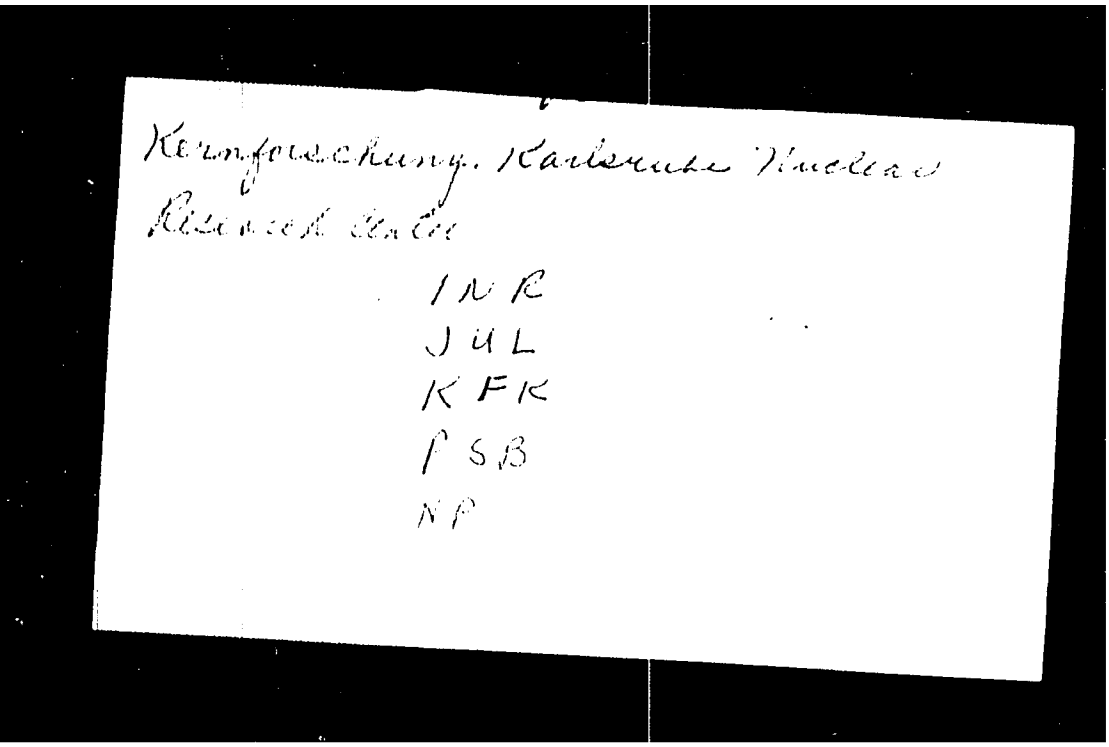

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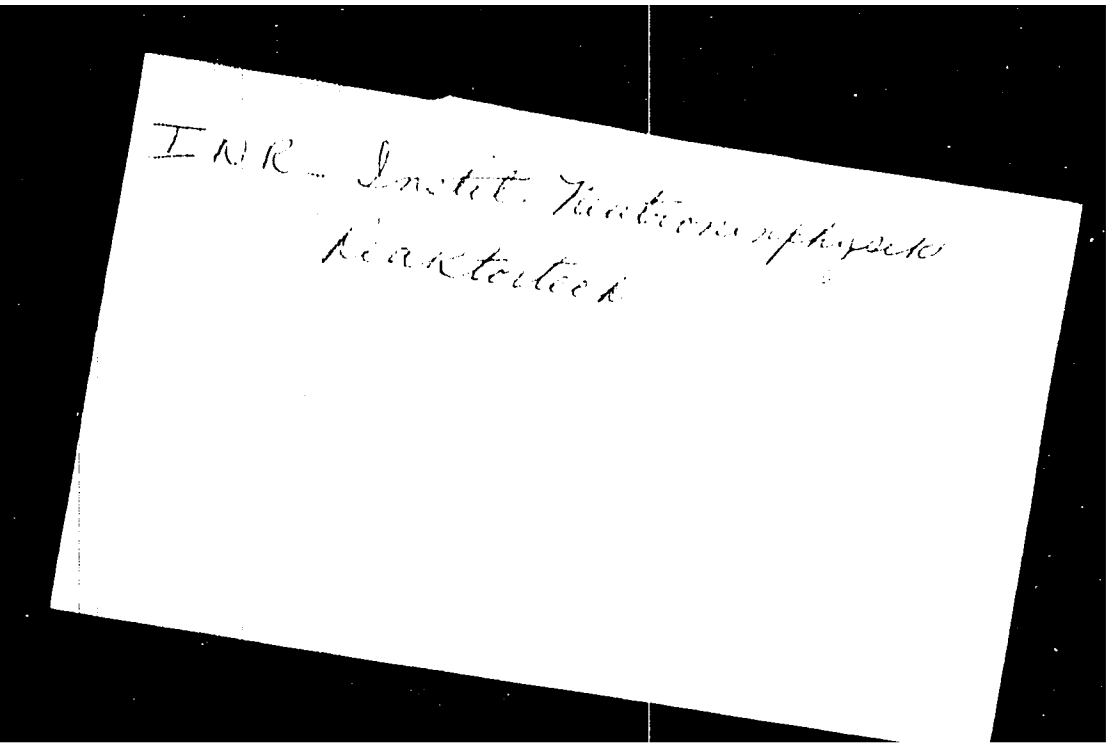

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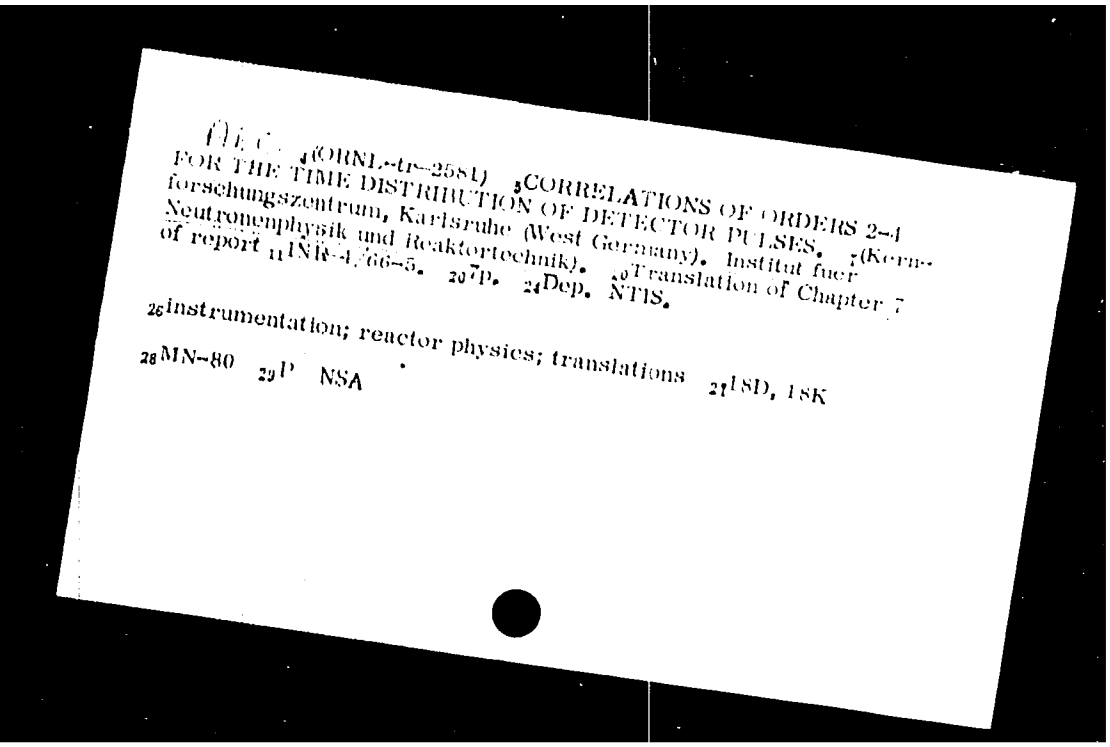

(ORNL-tr-2581) CORRELATIONS OF ORDERS 2-4 FOR THE TIME DISTRIBUTION OF DETECTOR PULSES. (Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Neutronenphysik und Reaktortechnik). Translation of Chapter 7 of report KFK-476-5. 207p. Dep. NTIS.

instrumentation; reactor physics; translations 18D, 18K

MN-80 P NSA

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201390043-6

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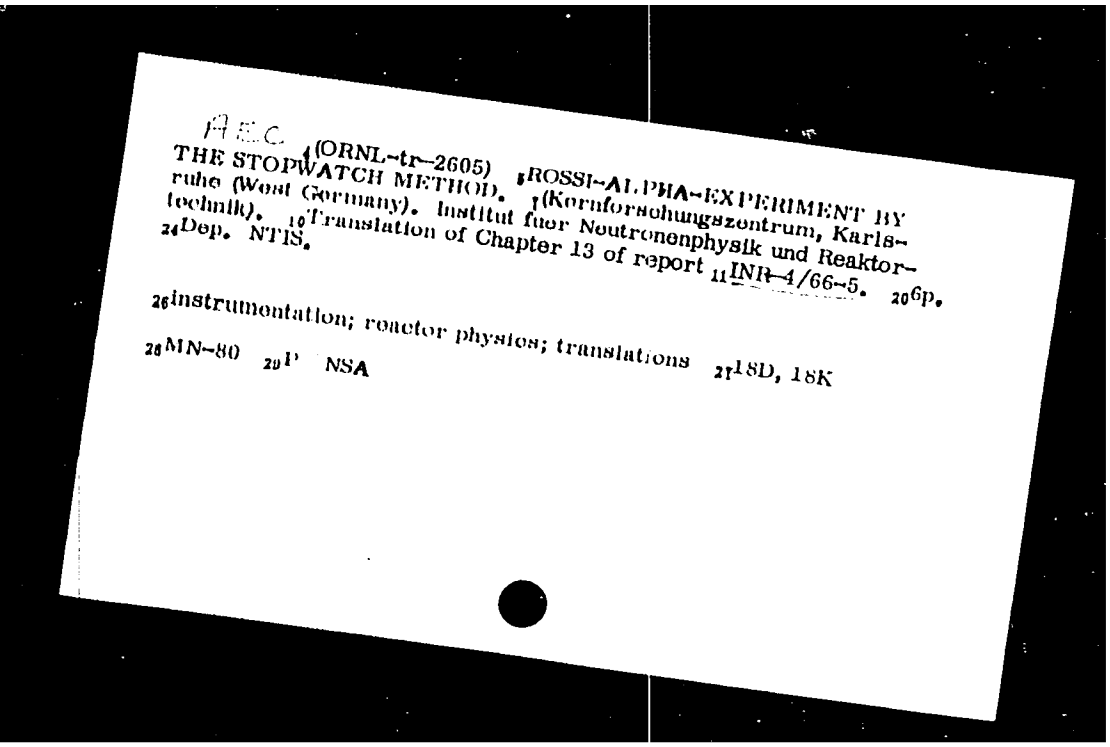

AEC

1(ORNL-tr-2605) 5ROSSI-ALPHA-EXPERIMENT BY THE STOPWATCH METHOD. 7(Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Neutronenphysik und Reaktortechnik). 10Translation of Chapter 13 of report 11INR-4/66-5. 20 6p. 24Dep. NTIS.

26instrumentation; reactor physics; translations 27 18D, 18K

28MN-80 29P NSA

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201390043-6

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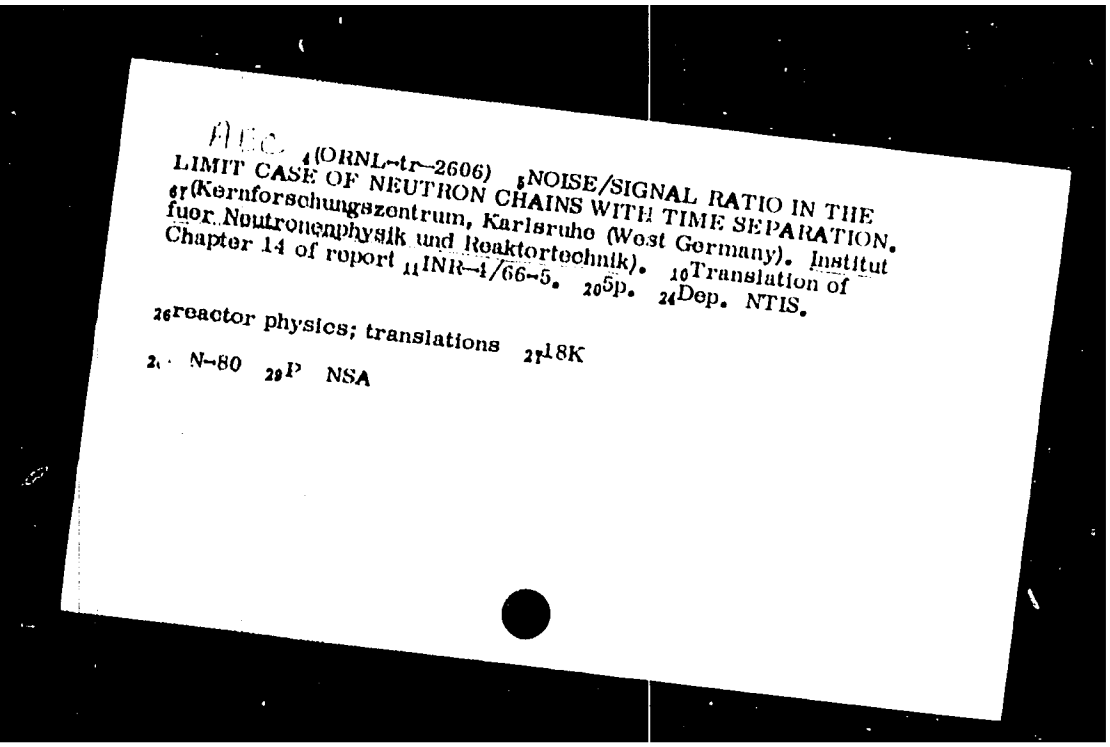

AEC 4(ORNL-tr-2606) 5NOISE/SIGNAL RATIO IN THE LIMIT CASE OF NEUTRON CHAINS WITH TIME SEPARATION. 6Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Neutronenphysik und Reaktortechnik). 10Translation of Chapter 14 of report 11INR-1/66-5. 20 5p. 24Dep. NTIS.

26reactor physics; translations 27 18K

2 N-80 29P NSA

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201390043-6

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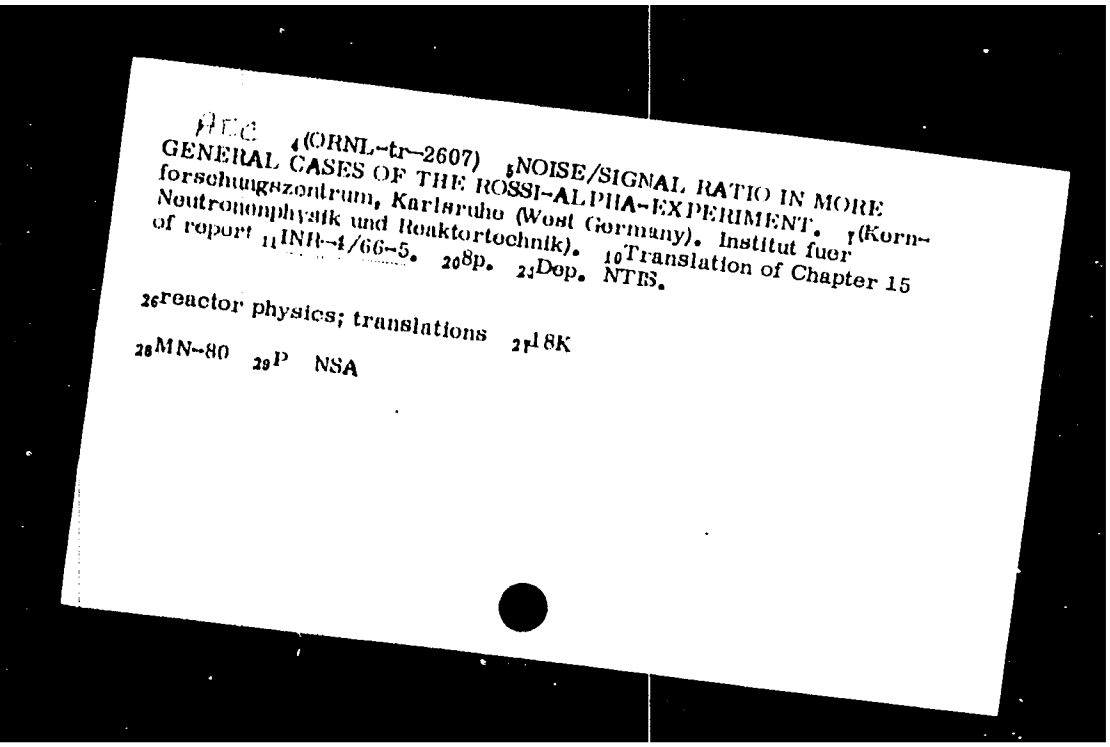

DTIC 4(ORNL-tr-2607) 5NOISE/SIGNAL RATIO IN MORE GENERAL CASES OF THE ROSSI-ALPHA-EXPERIMENT. 7(Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Neutronenphysik und Reaktortechnik). 10Translation of Chapter 15 of report 11INR-4/66-5. 20 8p. 23Dep. NTIS.

26reactor physics; translations 27 18K

28MN-80 29P NSA

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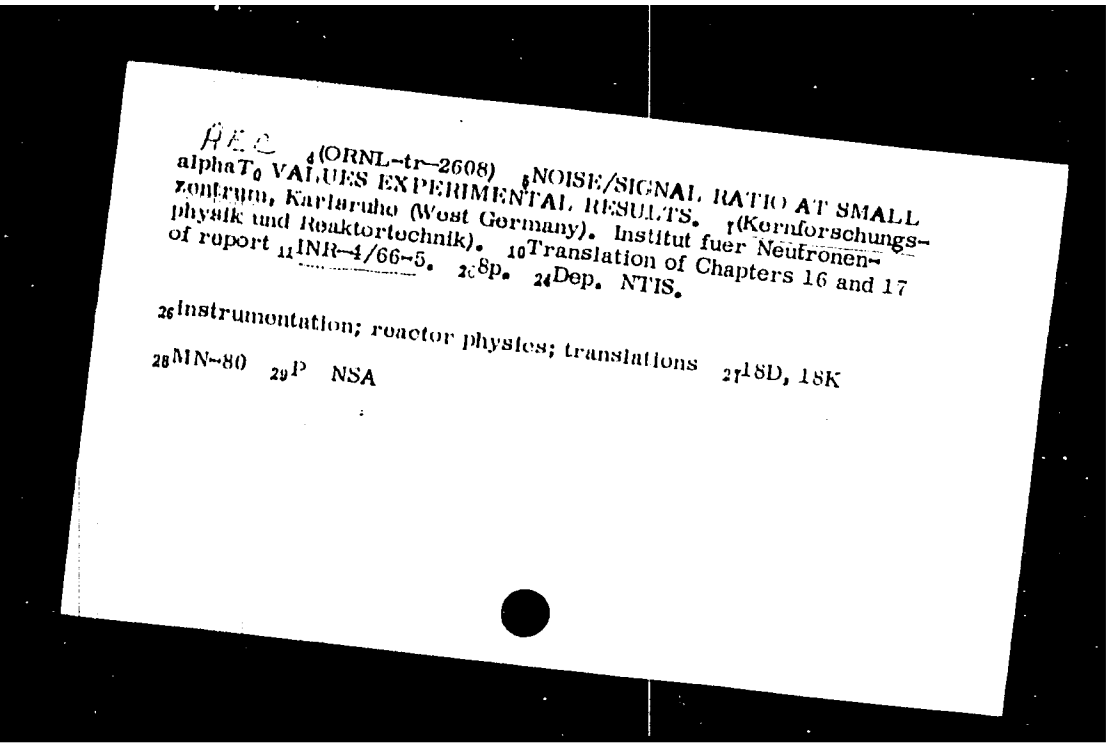

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4(ORNL-tr-2608) 5NOISE/SIGNAL RATIO AT SMALL alphaT0 VALUES EXPERIMENTAL RESULTS. 7(Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Neutronenphysik und Reaktortechnik). 10Translation of Chapters 16 and 17 of report 11INR-4/66-5. 26p. 24Dep. NTIS.

26Instrumentation; reactor physics; translations 27[18D, 18K

28MN-80 29P NSA

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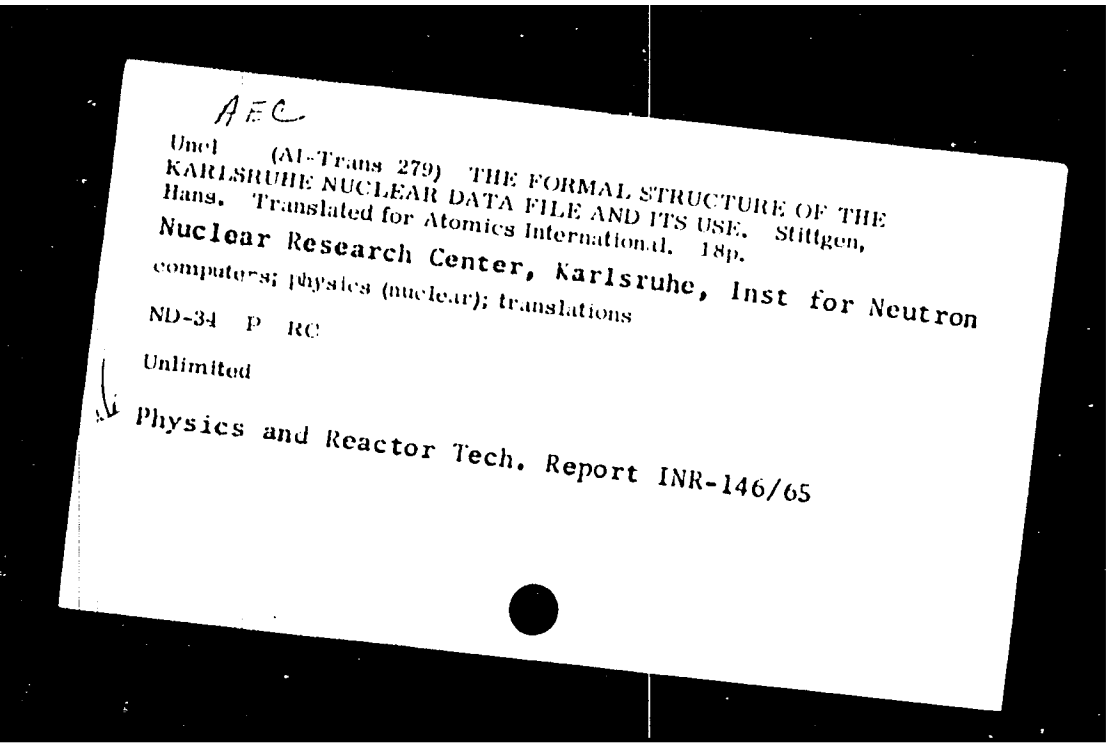

AEC

Uncl (AI-Trans 279) THE FORMAL STRUCTURE OF THE KARLSRUHE NUCLEAR DATA FILE AND ITS USE. Stittgen, Hans. Translated for Atomics International. 18p.

Nuclear Research Center, Karlsruhe, Inst for Neutron

computers; physics (nuclear); translations

ND-34 P RC

Unlimited

Physics and Reactor Tech. Report INR-146/65

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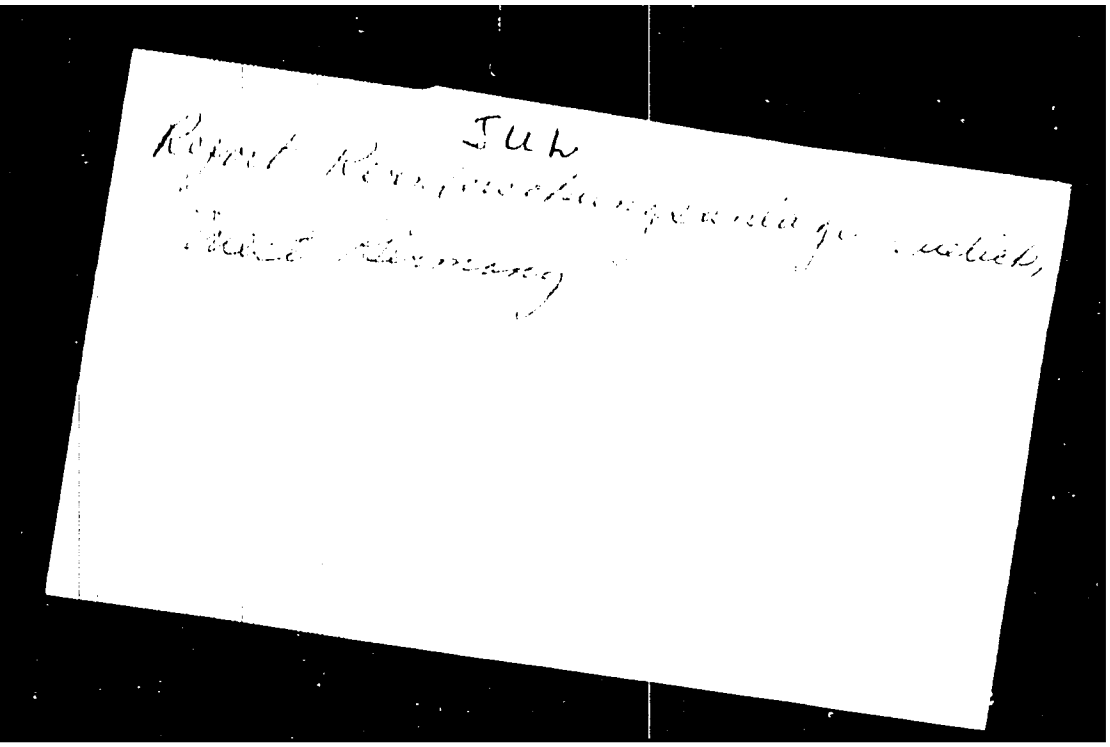
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201390043-6



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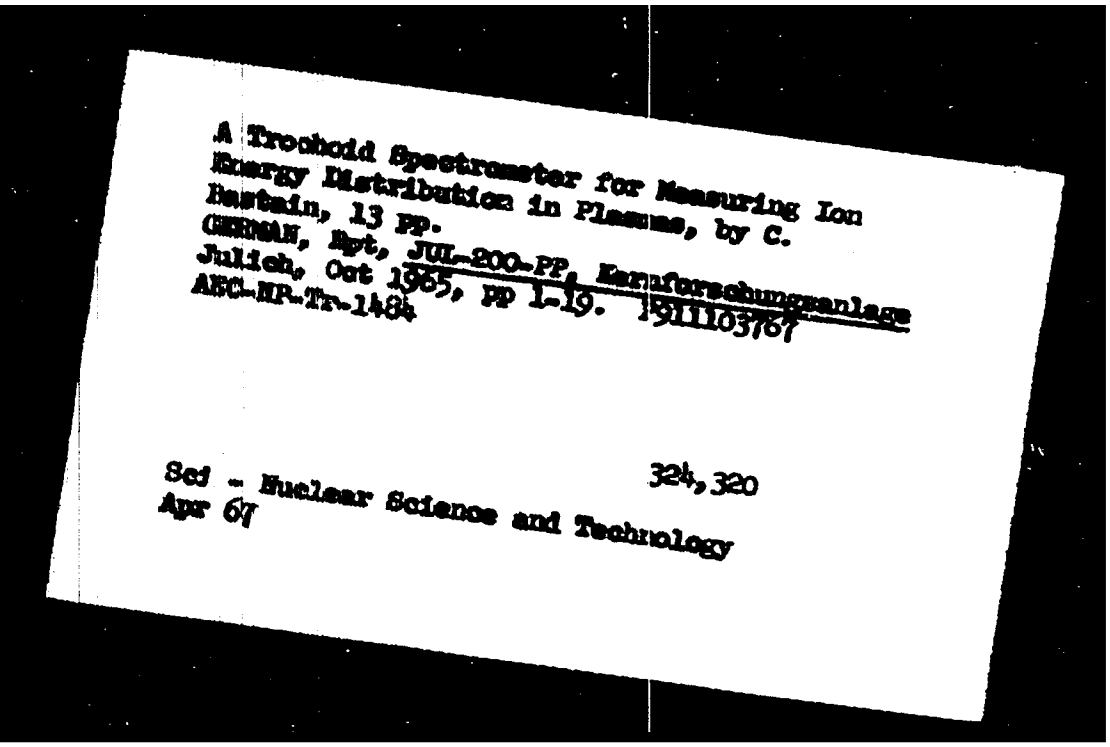

A Trochoid Spectrometer for Measuring Ion Energy Distribution in Plasmas, by C. Bertsin, 13 pp.
GERMAN, Rpt, JUL-200-PP, Kernforschungsanlage Julich, Oct 1965, pp 1-19. 91110376?
AEC-NP-Tr-1484

324, 320
Sci - Nuclear Science and Technology
Apr 67

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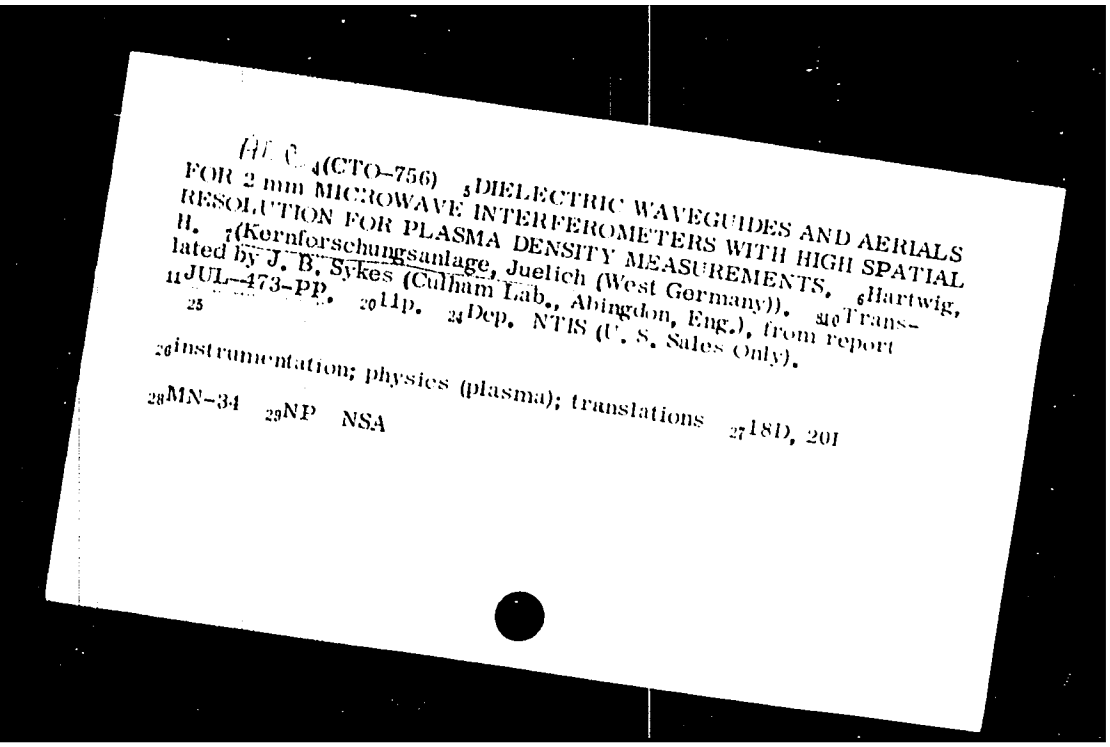

HE C 4(CTO-756) 5DIELECTRIC WAVEGUIDES AND AERIALS FOR 2 mm MICROWAVE INTERFEROMETERS WITH HIGH SPATIAL RESOLUTION FOR PLASMA DENSITY MEASUREMENTS. 6Hartwig, H. 7(Kernforschungsanlage, Juelich (West Germany)). 8,9Translated by J. B. Sykes (Culham Lab., Abingdon, Eng.), from report 11JUL-473-PP. 20 11p. 24Dep. NTIS (U. S. Sales Only).

25

26Instrumentation; physics (plasma); translations 27181, 201

28MN-34 29NP NSA

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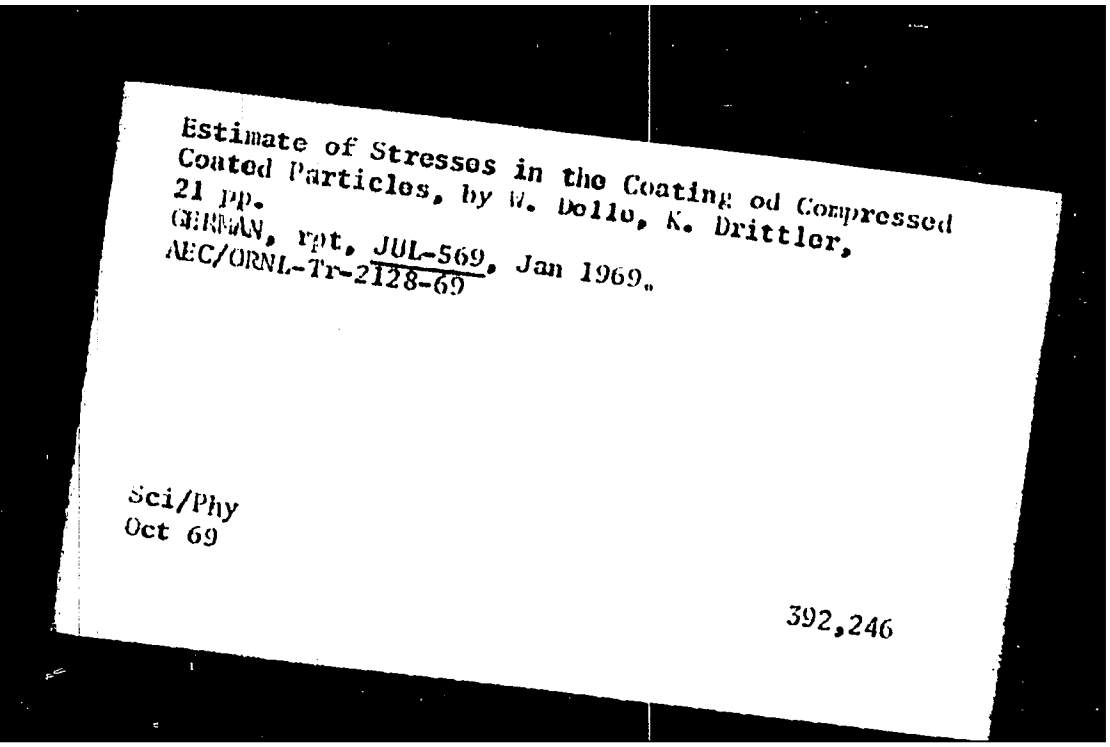

Estimate of Stresses in the Coating od Compressed Coated Particles, by W. Dollo, K. Drittler, 21 pp.
GERMAN, rpt, JUL-569, Jan 1969.
AEC/ORNL-Tr-2128-69

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Oct 69

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Optical Method for Estimation of the Amorphous Component in Pyrolytic Carbon, Part I, by K. Koizlik, N. A. Schulzo, 17 pp. GERMAN, rpt. JUL-589, April 1969. AEC/SC-T-70-4023

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Spin Fluctuations and the Critical Magnetic Scattering of Neutrons on Nickel, by N. Stump.
GERMAN, rpt, Jul-602-FN, 1969.
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Sep 70

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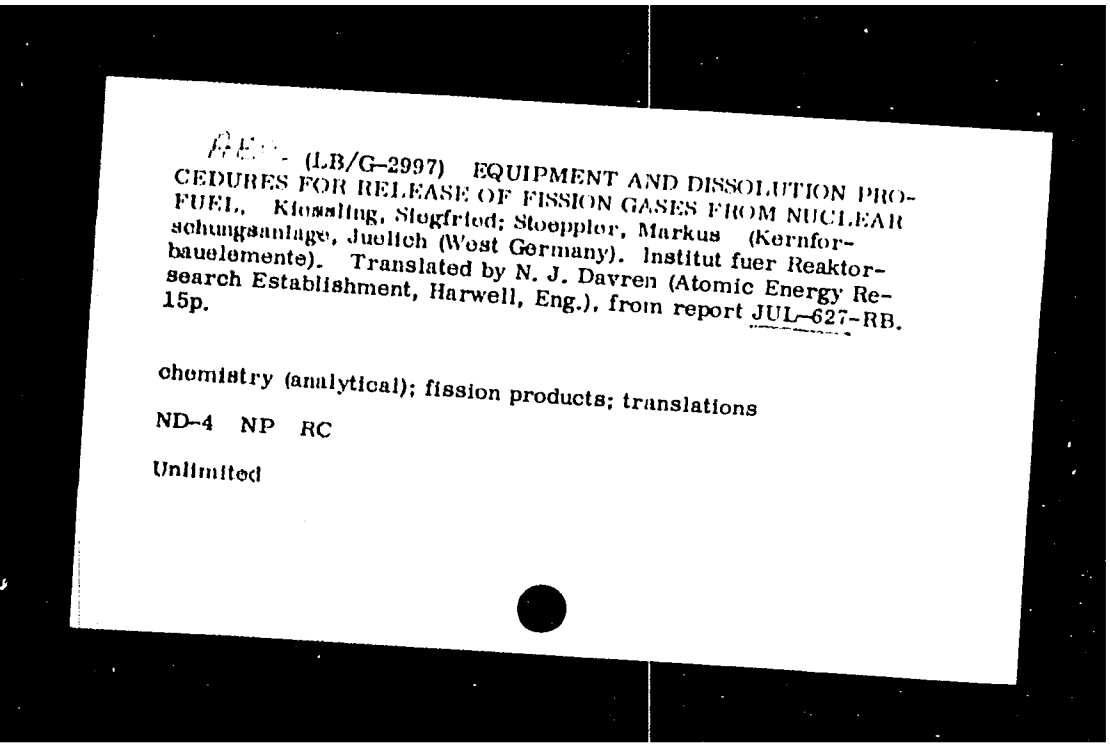

(LB/G-2997) EQUIPMENT AND DISSOLUTION PROCEDURES FOR RELEASE OF FISSION GASES FROM NUCLEAR FUEL. Klosalla, Siegfried; Stoeppler, Markus (Kernforschungsanlage, Juelich (West Germany). Institut fuer Reaktorbauelemente). Translated by N. J. Davren (Atomic Energy Research Establishment, Harwell, Eng.). from report JUL-627-RB. 15p.

chemistry (analytical); fission products; translations

ND-4 NP RC

Unlimited

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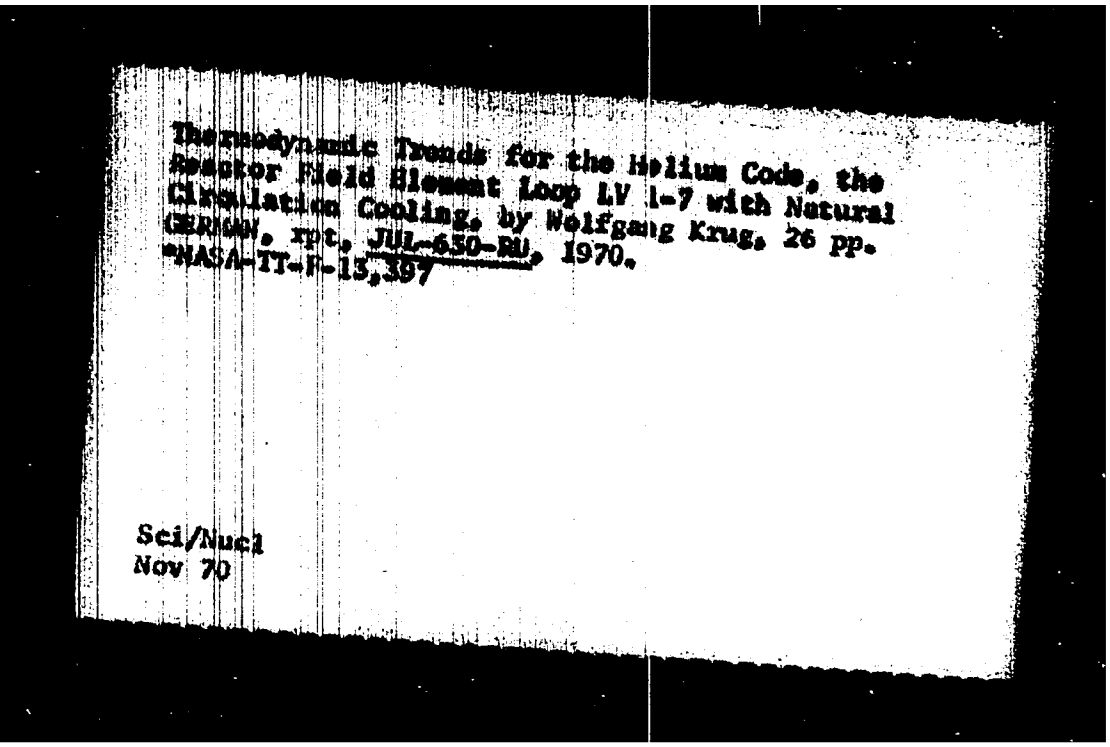

Thermodynamic Trends for the Helium Code, the Reactor Field Element Loop LV 1-7 with Natural Circulation Cooling, by Wolfgang Krug, 26 pp. (GERMAN), rpt, JUL-650-RB, 1970.
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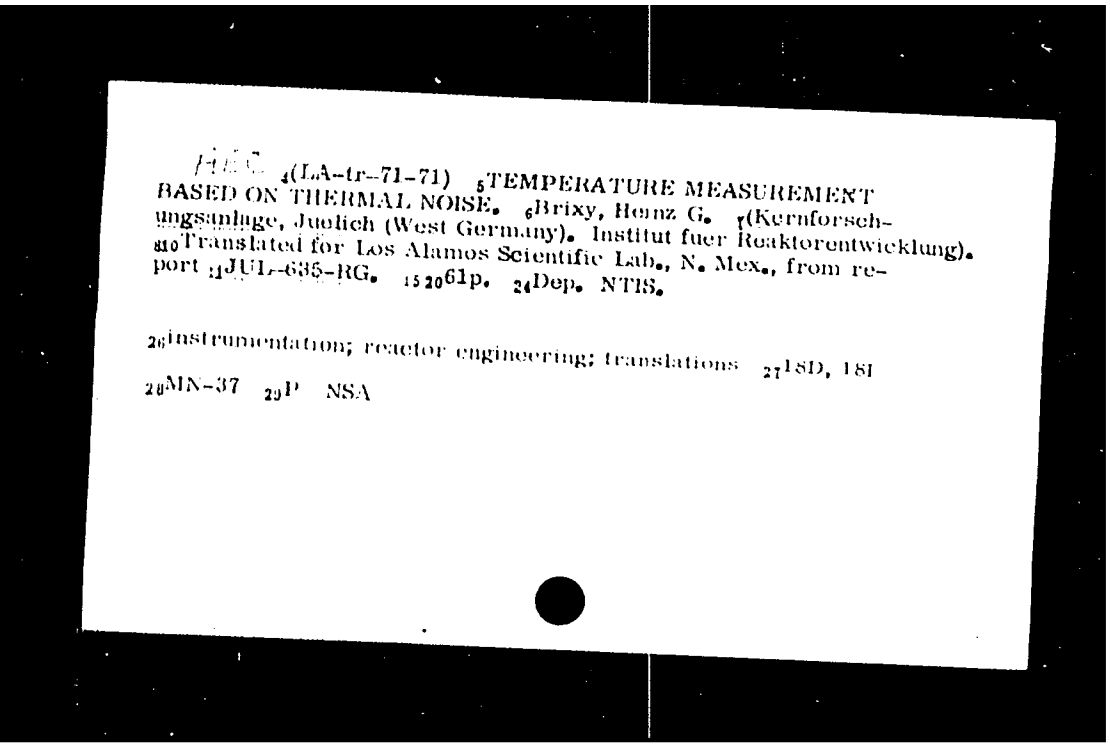

4(LA-tr-71-71) 5TEMPERATURE MEASUREMENT BASED ON THERMAL NOISE. 6Brixy, Heinz G. 7(Kernforschungsanlage, Juelich (West Germany). Institut fuer Reaktorentwicklung). 8,10Translated for Los Alamos Scientific Lab., N. Mex., from report 11JUL-635-RG. 15 20 61p. 24Dep. NTIS.

26Instrumentation; reactor engineering; translations 27 18D, 18I

28MN-37 29P NSA

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[4](GERHTR-2) [5]MODEL STUDIES ON CONICAL FLUIDIZED BEDS. A CONTRIBUTION TO FUEL PARTICLE COATING. [6]Wallroth, C.-F. [7](Kernforschungsanlage, Juelich (West Germany). Institut fuer Reaktorwerkstoffe). [10]Translation of report [11]JUL-669-RW. [20]197p. [24]Dep. NTIS.
[25]Thesis. Submitted to Technische Hochschule, Aachen, Ger.
Work performed under United States-German High Temperature Reactor Research Exchange Program.

[26]reactor fuel; translations [27]18J

[28]MN-79 [29]P NSA

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201390043-6

(GERHTR-3) PROCESS FOR THE IDENTIFICATION OF SPHERICAL FUEL ELEMENTS OF THE HIGH-TEMPERATURE REACTOR BY MEANS OF EMISSION SPECTRUM ANALYSIS AT 40 ATM HELIUM. Lingen, P. R. (Kernforschungsanlage, Juelich (West Germany). Institut fuer Reaktorwerkstoffe). Translation of report JUL-671-RW. 104p. Dep. NTIS.
Thesis. Submitted to Technische Hochschule, Aachen, Ger.
Work performed under United States-German High Temperature Reactor Research Exchange Program.

reactor fuel; translations 18J

MN-79 P NSA

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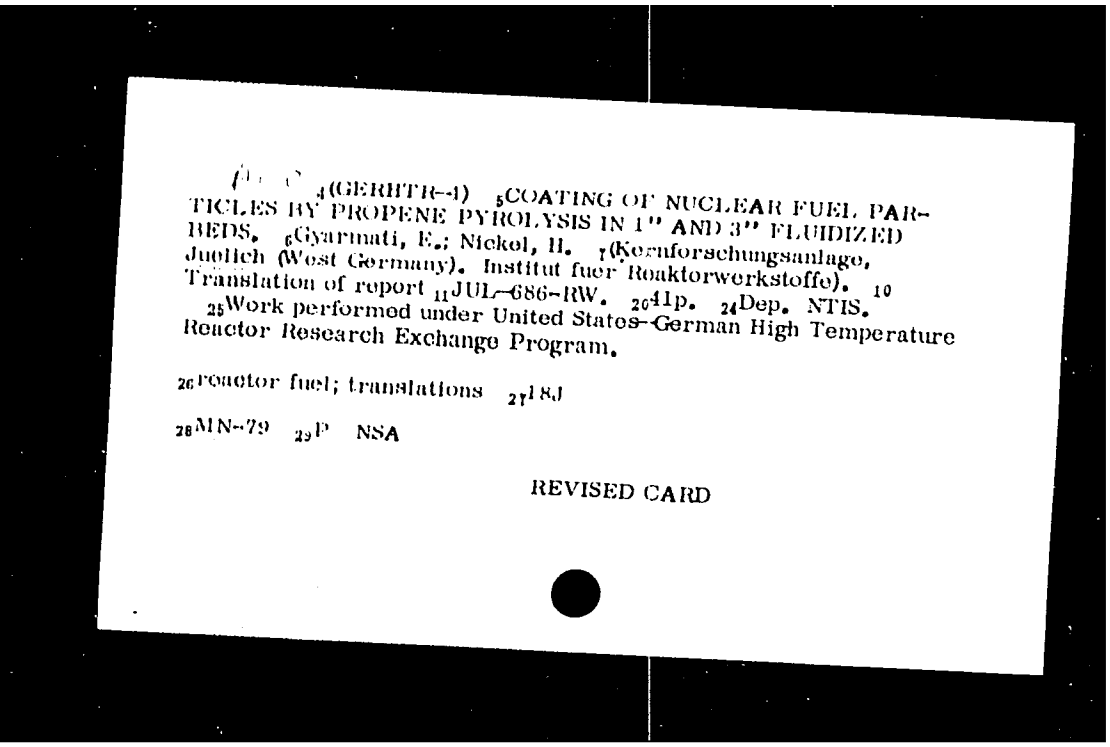

(GERHTR-4) COATING OF NUCLEAR FUEL PARTICLES BY PROPENE PYROLYSIS IN 1" AND 3" FLUIDIZED BEDS. Gyarmati, E.; Nickel, H. (Kernforschungsanlage, Juelich (West Germany). Institut fuer Reaktorwerkstoffe). Translation of report JUL-686-RW. 41p. Dep. NTIS.
Work performed under United States-German High Temperature Reactor Research Exchange Program.

reactor fuel; translations 18J

MN-79 P NSA

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201390043-6

[illegible] [4](GERITTE-S) [5]APPARATUS FOR MEASURING THE RELEASE OF FISSION GASES AND OTHER FISSION PRODUCTS BY DEGASSING. [6]Stradal, Karl Alfred [7](Kernforschungsanlage, Juelich (West Germany). Institut fuer Reaktorwerkstoffe). [10] Translation of report [11]JUL-707-RW. [20]69p. [24]Dep. NTIS. [25]Thesis. Submitted to Technische Hochschule, Aachen, Ger. Work performed under United States-German High Temperature Reactor Research Exchange Program.

[26]fission products; reactor fuel; translations [27]18G, 18J

[28]MN-80 [29]P NSA

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[4](GERHTR-35) [5]DETERMINATION OF [235]U BURNUP IN THE REPROCESSING OF THORIUM-CONTAINING NUCLEAR FUELS. [6]Brodda, B.-G. [7](Kernforschungsanlage, Juelich (West Germany). Institut fuer Chemische Technologie). [10]Translation of report [11]JUL-715-CT. [20]14p. [24]Dep. NTIS.
[25]Work performed under United States-German High Temperature Reactor Research Exchange Program.

[26]chemistry (analytical); chemistry (radio- and radiation); chemistry (separation); reactor fuel; translations [27]07, 07E, 07A, 18J

[28]MN-4 [29]P NSA

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201390043-6

AEC (ORNL-tr-2599) STUDIES ON THE DIFFUSION OF METALLIC FISSION PRODUCTS AND HEAVY METALS IN THE COATING OF FUEL PARTICLES FOR HIGH-TEMPERATURE REACTORS. Engelhard, Juergen (Kernforschungsanlage, Juelich (West Germany). Institut fuer Reaktorentwicklung). Translated for Oak Ridge National Lab., Tenn., from report JUL-752-RG. 101p. Dep. NTIS.

reactor fuel; reactor materials; translations 18J

MN-25 P NSA

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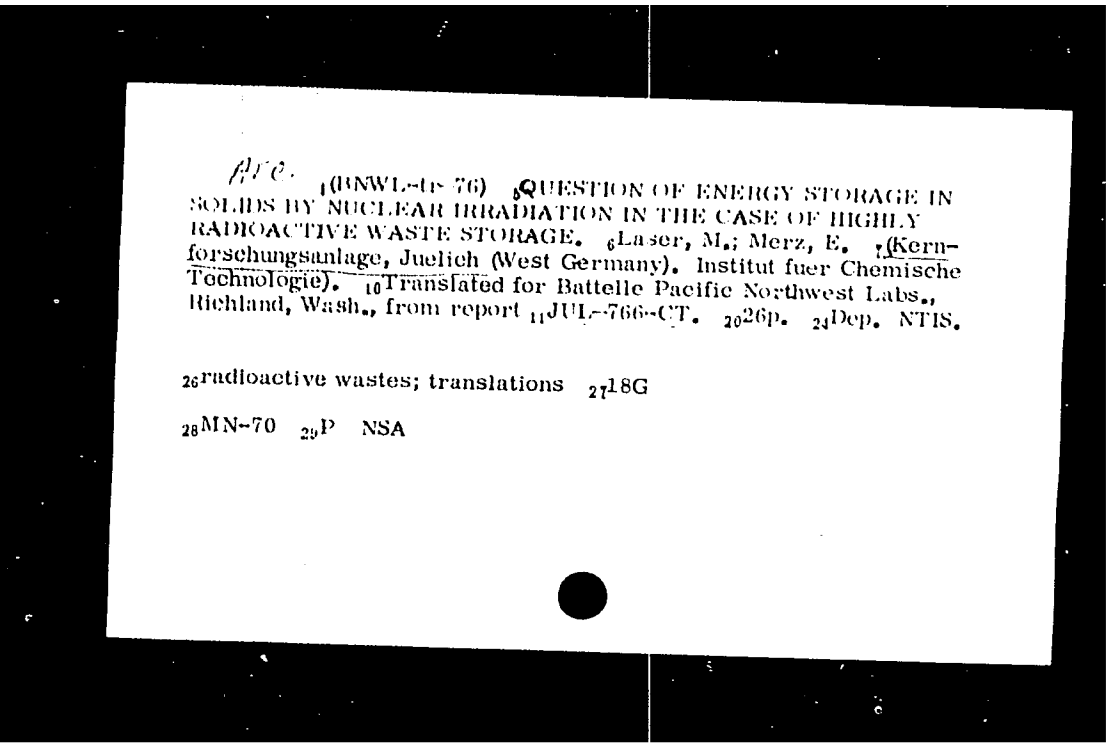

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[26]radioactive wastes; translations [27]18G

[28]MN-70 [29]P NSA

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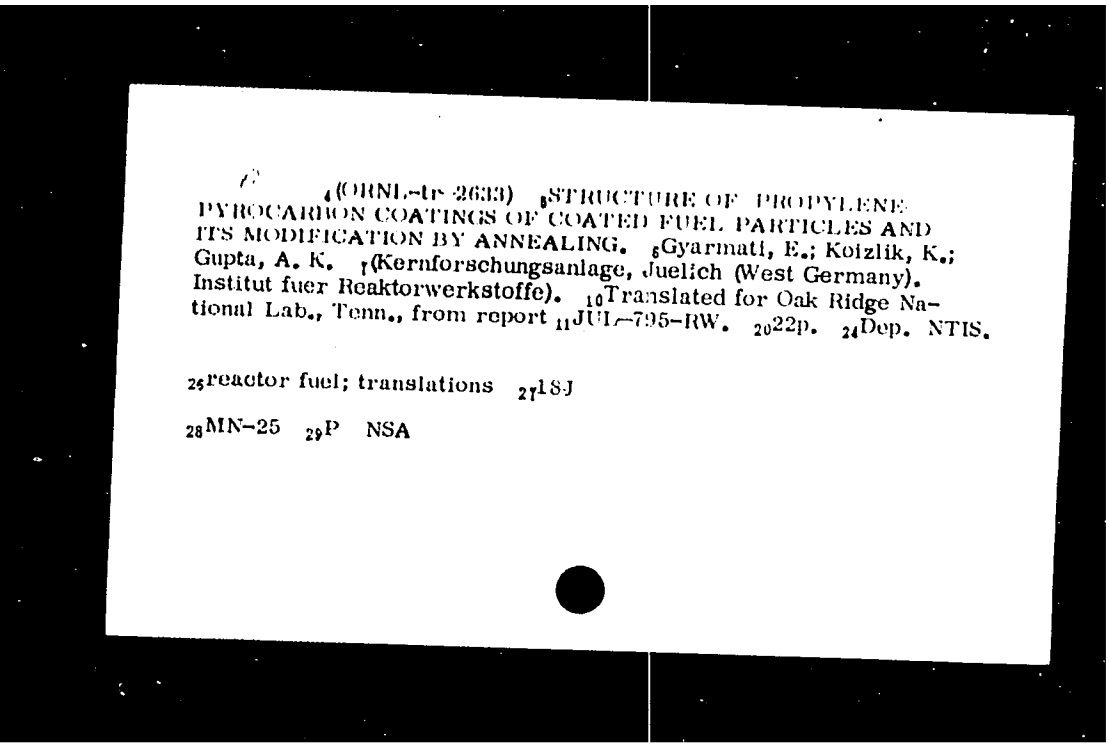

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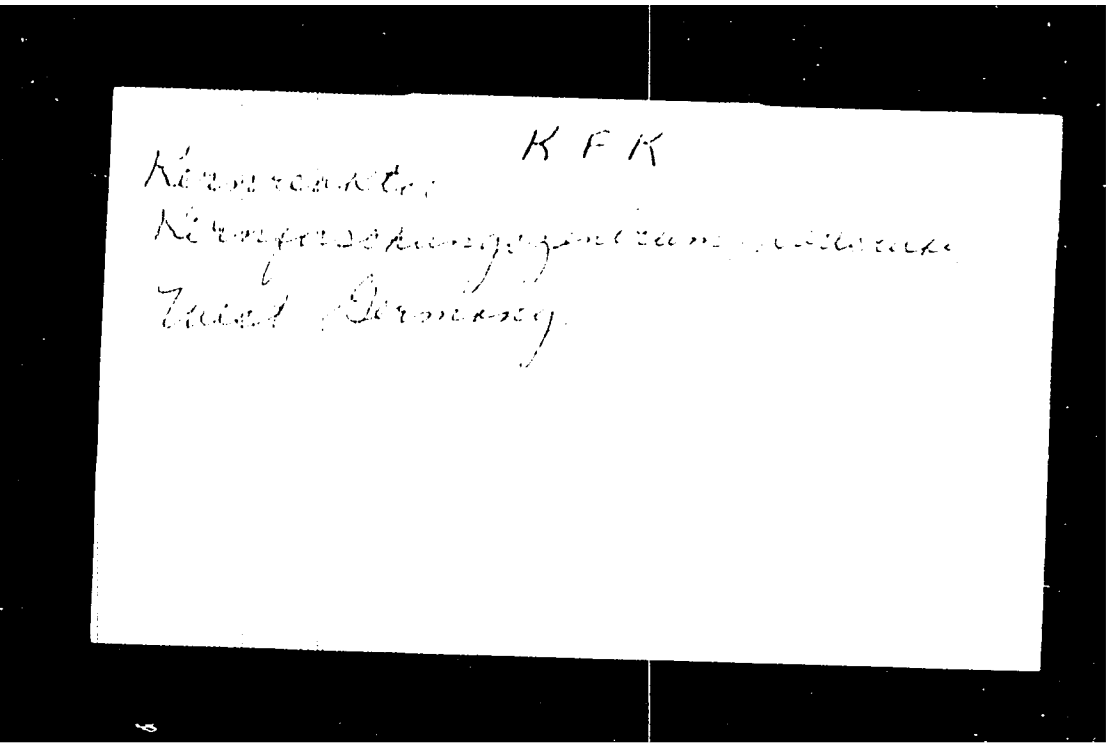

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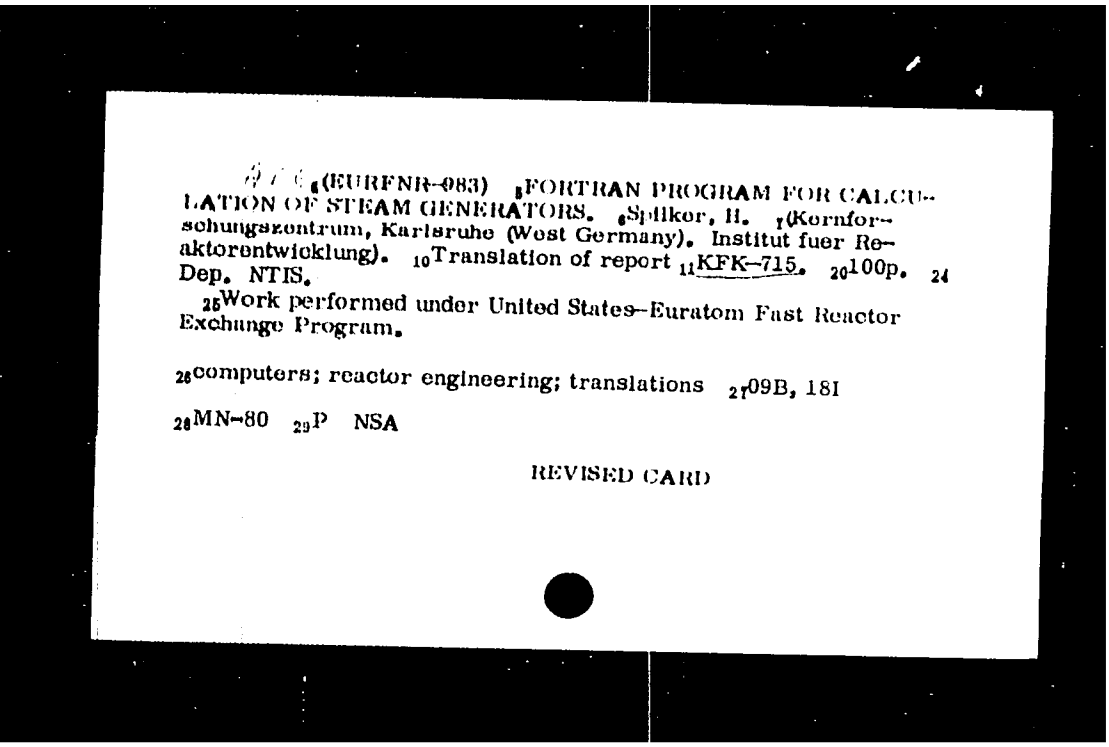

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computers; reactor engineering; translations 09B, 18I

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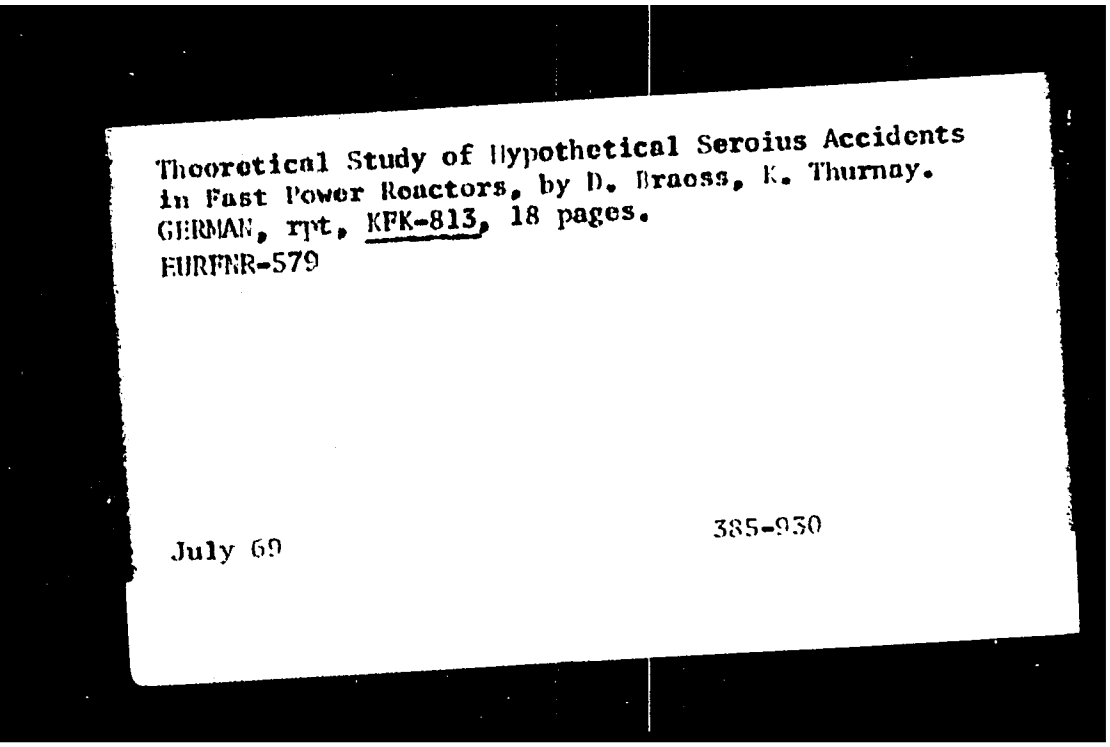

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[26]chemistry (organic); translations [27]07C

[28]MN-4 [29]NP NSA

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385=931

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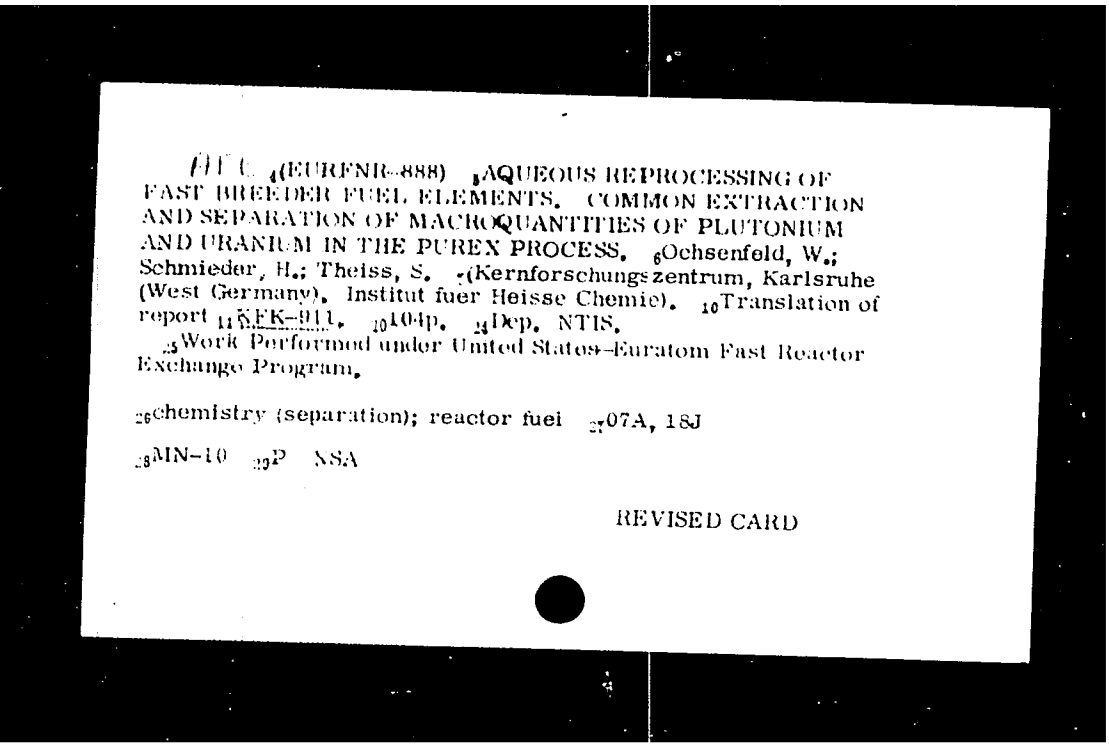

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(15)Work Performed under United States-Euratom Fast Reactor Exchange Program.

(26)chemistry (separation); reactor fuel (27)07A, 18J

(28)MIN-10 (29)P NSA

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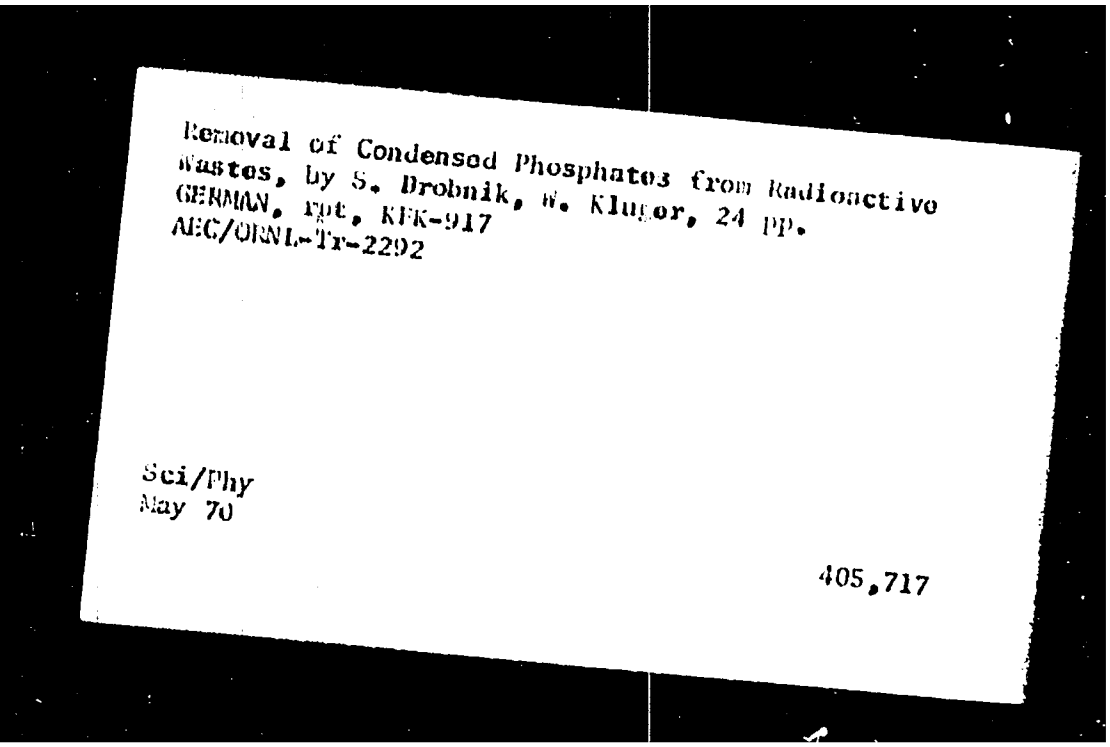

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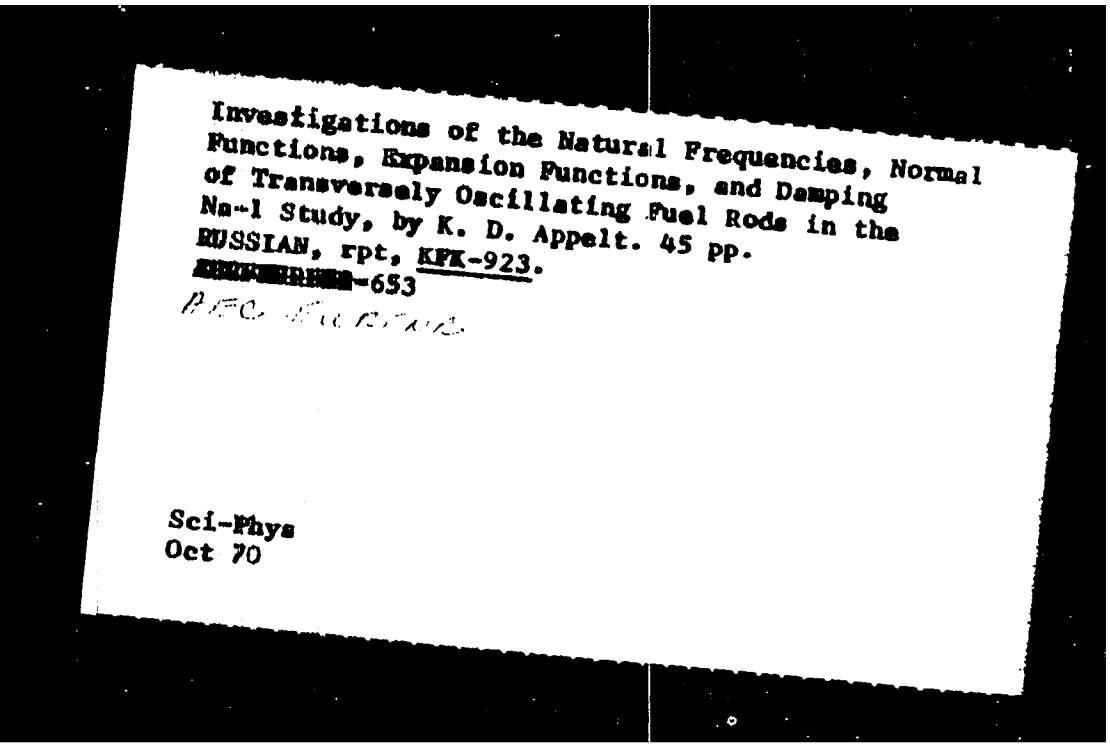

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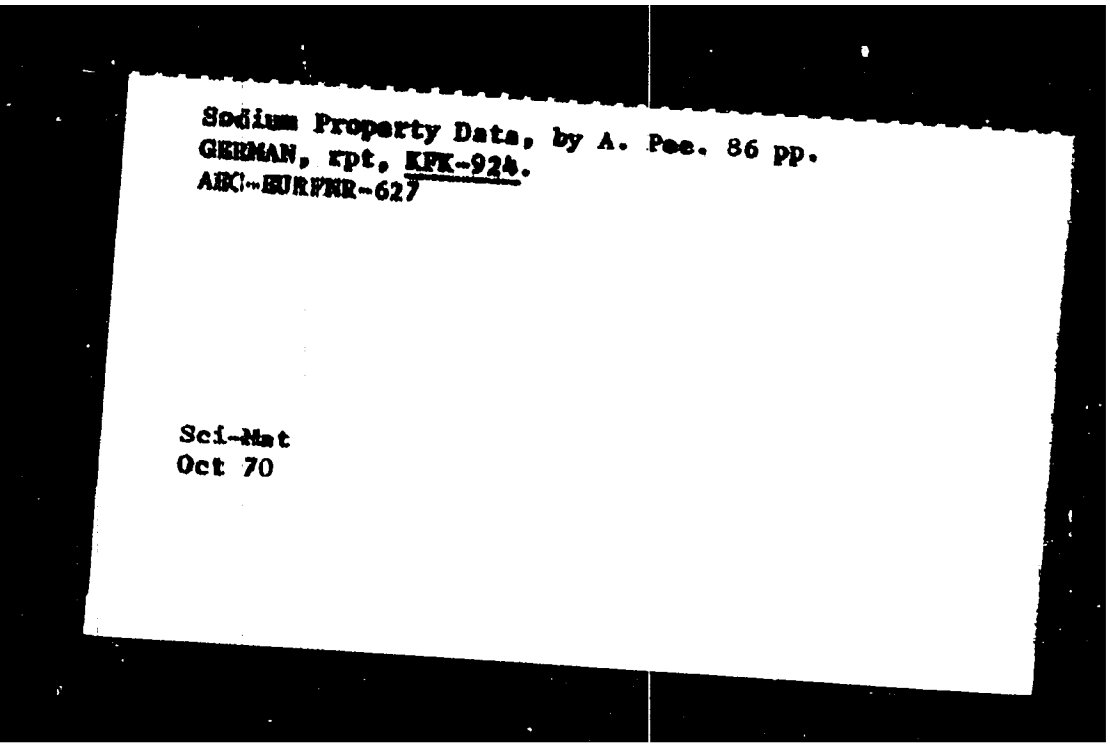

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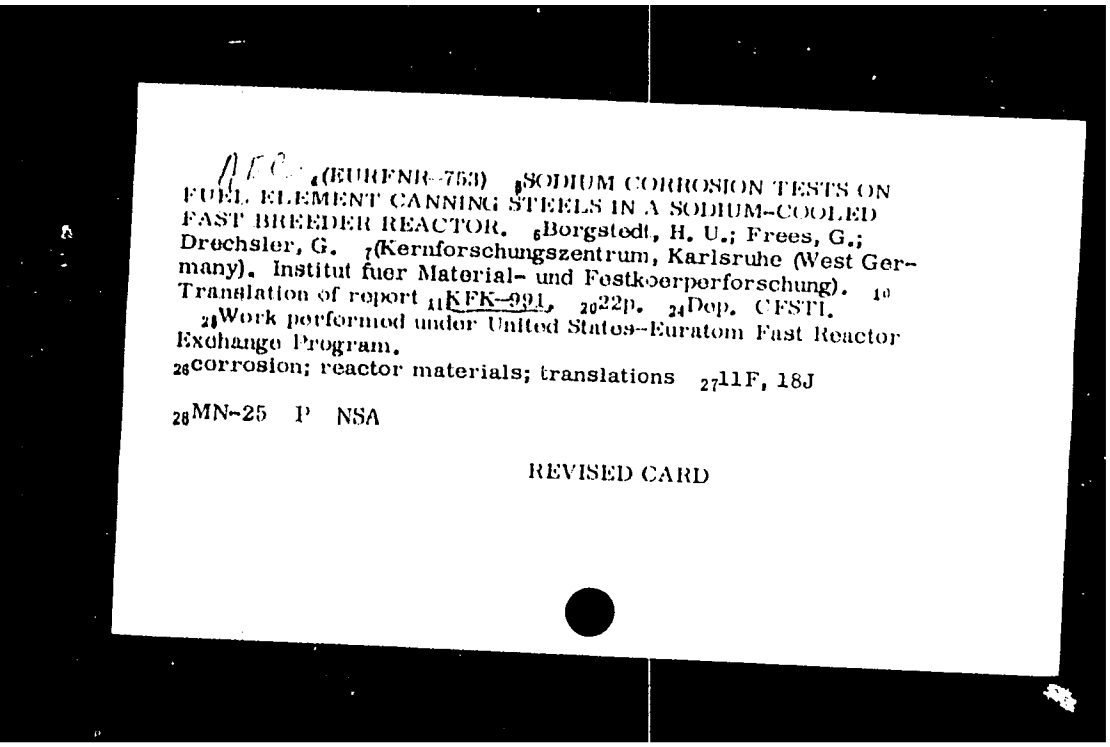

AEC [4](EURFNR-753) [5]SODIUM CORROSION TESTS ON FUEL ELEMENT CANNING STEELS IN A SODIUM-COOLED FAST BREEDER REACTOR. [6]Borgstedt, H. U.; Frees, G.; Drechsler, G. [7](Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Material- und Festkoerperforschung). [10] Translation of report [11]KFK-991, [20]22p. [24]Dep. CFSTI. [25]Work performed under United States-Euratom Fast Reactor Exchange Program.
[26]corrosion; reactor materials; translations [27]11F, 18J

[28]MN-25 P NSA

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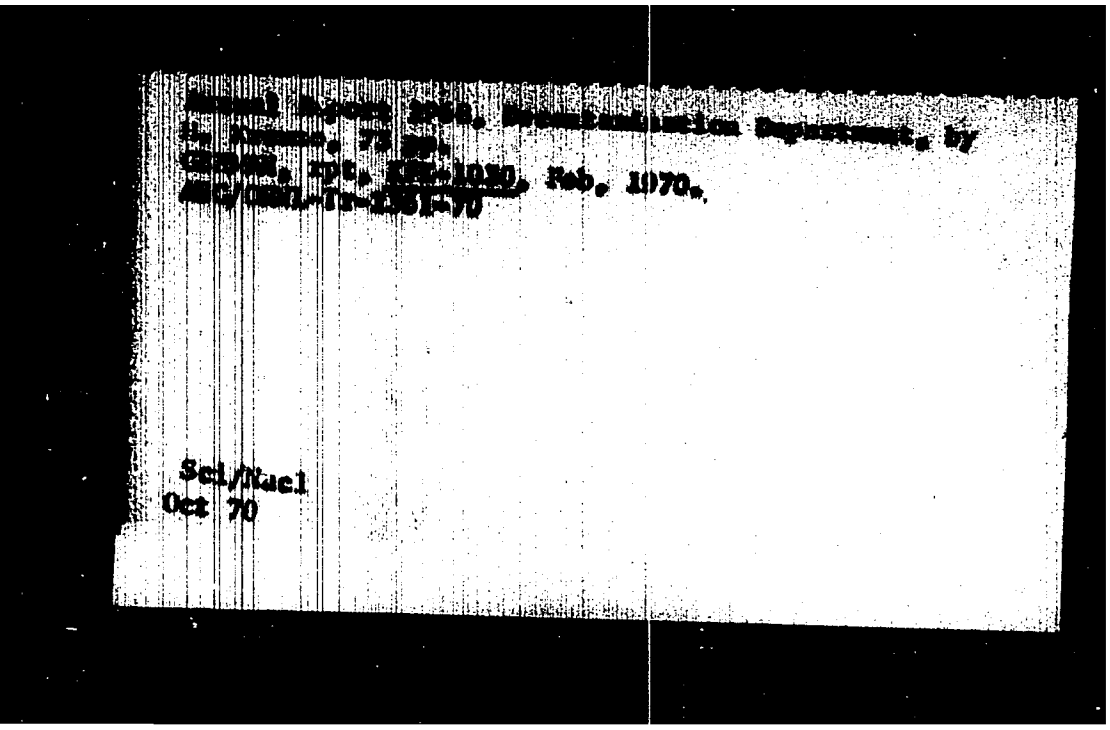

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[redacted] 4(EURFNR-747) 5THE DEVELOPMENT OF THE SEFOR ENERGY PROBES. 6Bumm, H.; Glauner, H. W.; Ruehl, E.; Schikarski, W.; Tavosanis, M. 7(Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Angewandte Reaktorphysik). 10Translation of report 11KFK-1033. 2057p. 24Dep. CFSTI. 25Work performed under United States-Euratom Fast Reactor Exchange Program.

26reactor engineering; reactors-research; translations 27181, 18M

28MN-80 29P NSA

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Uncl (LIB/Trans-415) EXPERIMENTAL DETERMINATION OF THE PRESSURE LOSS IN A 37 ROD TUBE BUNDLE WITH 6 INTEGRAL HELICAL FINS PER TUBE AS SEPARATION SUPPORTS. Tschoeke, H. (Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Reaktorbauelemente), translated by I. A. Mumme from report KFK-1038. 50p.

reactor fuels; translations

ND-80 NP RC

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Faun-Z: Calculation of Major Reactor Accidents by the Modified Bethetait-Method in r,z Geometry, by K. Thurnay. 59 pp.
GERMAN, rpt, KFK-1044.
AEC-tr-RFNR-703

Sci-Phys
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AEC (ORNL-tr-2365) PREPARATION OF URANIUM MONONITRIDE PELLETS OF DIFFERING DENSITIES BY COLD PRESSING AND SINTERING. Stobmanns, W. (Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Material- und Festkoerperforschung). Translated by R. Gregg Mansfield (Oak Ridge National Lab., Tenn.), from report KFK-1049. 17p. Dep. NTIS.

metallurgy; reactor materials; translations 11F, 18J

MN-25 P NSA

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(EURFNR-748) THEORETICAL TREATMENT OF CONCEIVABLE SERIOUS ACCIDENTS AT FAST BREEDER REACTORS IN THE CONTEXT OF THE BETHE-TAIT METHOD. Klugo, F. G.; Thurnay, K. (Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Neutronenphysik und Reaktortechnik). Translation of report KFK-1057. 75p. Dep. CFSTI.

Work Performed under United States-Euratom Fast Reactor Exchange Program.

reactor safety; reactor physics 18I, 18K

MN-80 P NSA

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[4](LB/G-2976) [5]CALCULATION OF HALF-LIVES FOR UNKNOWN ACTINIDE ISOTOPES. [6]Keller, K. A.; Muenzel, H. [7](Kernforschungszentrum, Karlsruhe (West Germany)). [10]Translated by D. Vordin (Atomic Energy Research Establishment, Harwell, Eng.), from report [11]KFK-1059. [10]42p. [24]Dep. NTIS (U. S. Sales Only).

[26]physics (nuclear); translations [27]20H

[28]MN-34 [29]NP NSA

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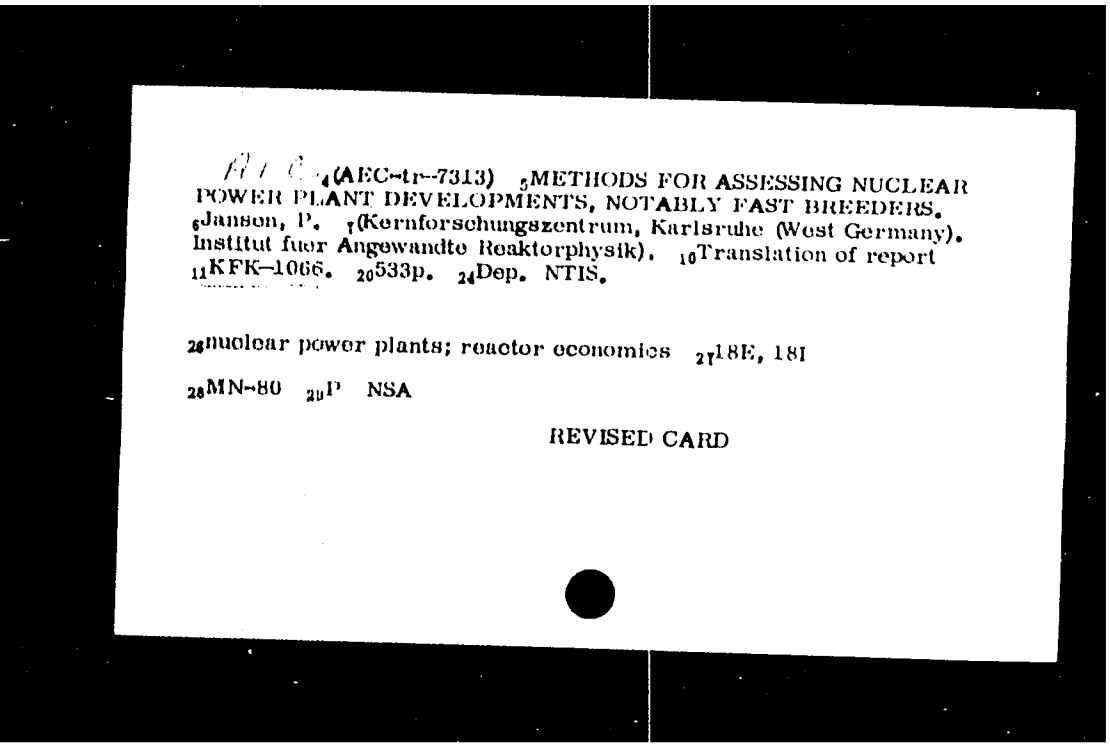

4(AEC-tr-7313) 5METHODS FOR ASSESSING NUCLEAR POWER PLANT DEVELOPMENTS, NOTABLY FAST BREEDERS. 6Jansen, P. 7(Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Angewandte Reaktorphysik). 10Translation of report 11KFK-1066. 20533p. 24Dep. NTIS.

26nuclear power plants; reactor economics 27[18E, 18I

28MN-80 29P NSA

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(4)(EURFNR-872) (5)DETERMINATION OF (232)U AND (236)Pu IN IRRADIATED NUCLEAR FUELS. (6)Braun, H.; (7)Moy, T. (Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Radiochemie). (10)Translation of report (11)KFK-1128. (20)21p. (21)(EUR-4320). (24)Dep. NTIS.

(25)Work Performed under United States-Euratom Fast Reactor Exchange Program.

(26)chemistry (analytical); reactor fuels (27)07, 18J

(28)MN-4 (29)P NSA

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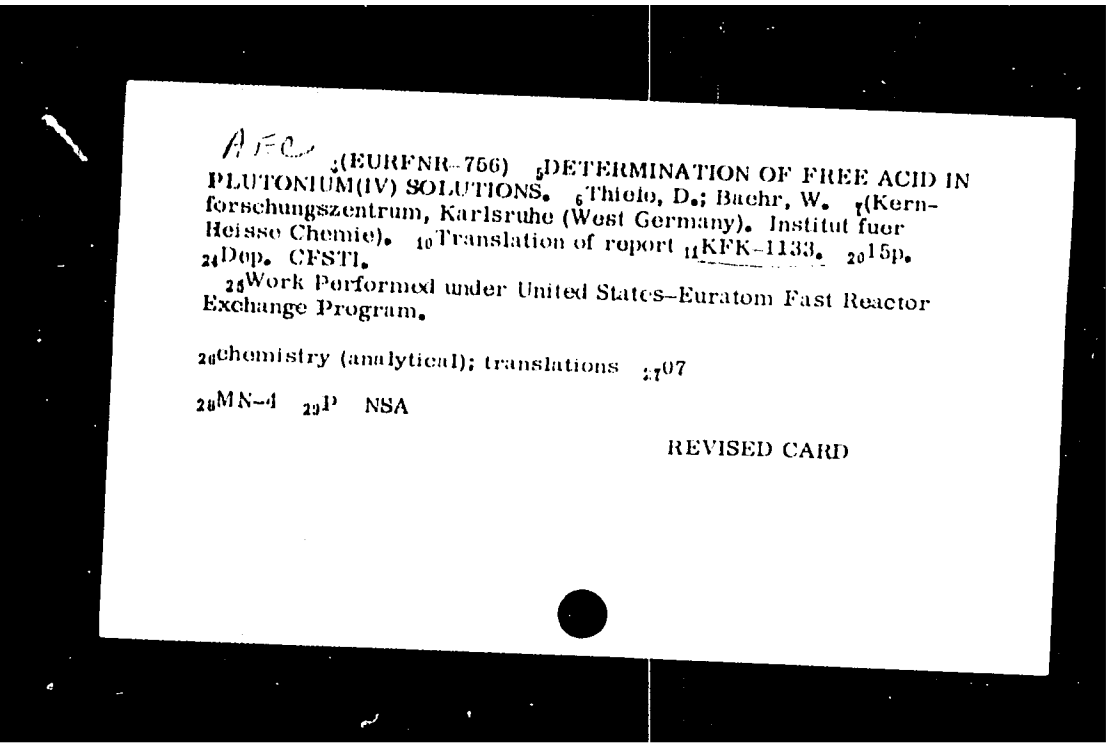

AEC [3](EURFNR-756) [5]DETERMINATION OF FREE ACID IN PLUTONIUM(IV) SOLUTIONS. [6]Thiele, D.; Bachr, W. [7](Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Heisse Chemie). [10]Translation of report [11]KFK-1133. [20]15p. [24]Dep. CFSTI.

[25]Work Performed under United States–Euratom Fast Reactor Exchange Program.

[26]chemistry (analytical); translations [27]07

[28]MN-4 [29]P NSA

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A.E.C. 4(EURFNR-775) 5RESULTS OF ERROR ANALYSIS FOR IN-PILE THERMAL CONDUCTIVITY MEASURMENT USING THE BALANCED OSCILLATOR TECHNIQUES. 6Daenner, W. 7(Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Reaktorentwicklung). 10Translation of report 11KFK-1140. 20 45p. 24Dep. NTIS.

25Work Performed under United States–Euratom Fast Reactor Exchange Program.

26heat transfer; reactor engineering 27 20M, 18I

28MN-80 29P NSA

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[4](EURFNR-757) [6]STATIC METHOD FOR SUBCRITICALITY DETERMINATION IN FAST BREEDERS. [8]Glaumer, H. W.; Housener, G. [7](Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Reaktorentwicklung). [10]Translation of report [11]KFK-1148. [20]11p. [24]Dep. CFSTI.

Work performed under United States-Euratom Fast Reactor Exchange Program.

[26]reactor safety; reactor physics; translations [27]181, 18K

[28]MN-80 [29]P NSA

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[4](EURFNR 783) [8]IN-PILE CREEP RUPTURE BEHAVIOR OF CERTAIN AUSTENITIC STEELS AND NICKEL ALLOYS UNDER MULTIAXIAL STRESS. RESULTS OF MOL-2 EXPERIMENTS. [6]Closs, K. D.; Laue, H. J. [7](Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Angewandte Reaktorphysik). [10]Translation of report [11]KFK-1152. [20]51p. [24]Dep. NTIS.

[25]Work Performed under United States-Euratom Fast Reactor Exchange Program.

[26]metallurgy [27]11F

[28]MN-25 [29]P NSA

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4(EURFNR-785) 5THE SOLUBILITY OF INERT GASES IN THE REACTOR COOLANT SODIUM AND RELATED SAFETY PROBLEMS. 6Thormeier, K. 7(Kernforschungs-zentrum, Karlsruhe (West Germany). Institut fuer Reaktorent-wicklung). 10Translation of report 11KFK-1166. 20117p. 24Dep. NTIS.

25Work Performed under United States-Euratom Fast Reactor Exchange Program.

26reactor safety 27181

28MN-80 29P NSA

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(EURFNR-836) STOICHIOMETRY SHIFT IN AN OXIDE FUEL ELEMENT AT HIGH BURNUP. Holleck, H.; Kleykamp, H. (Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Material- und Festkoerperforschung). Translation of report KFK-1181. 66p. Dep. NTIS.
Work Performed under United States-Euratom Fast Reactor Exchange Program.

reactor engineering; reactor fuels 18I, 18J

MN-80 P NSA

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[4](EURFNR-820) [7]COMPATIBILITY STUDIES WITH UC OF DIFFERENT STOICHIOMETRIES AND IRON-NICKEL-CHROMIUM ALLOYS AND THE INFLUENCE OF STABILIZERS. [6]Goetzmann, O.; Scherbl, D. [7](Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Material- und Festkoerperforschung). [10]Translation of report [11]KFK-1213. [20]27p. [24]Dep. NTIS. [25]Work performed under United States-Euratom Fast Reactor Exchange Program.

[26]reactor materials; translations [27]18J

[28]MN-25 [29]P NSA

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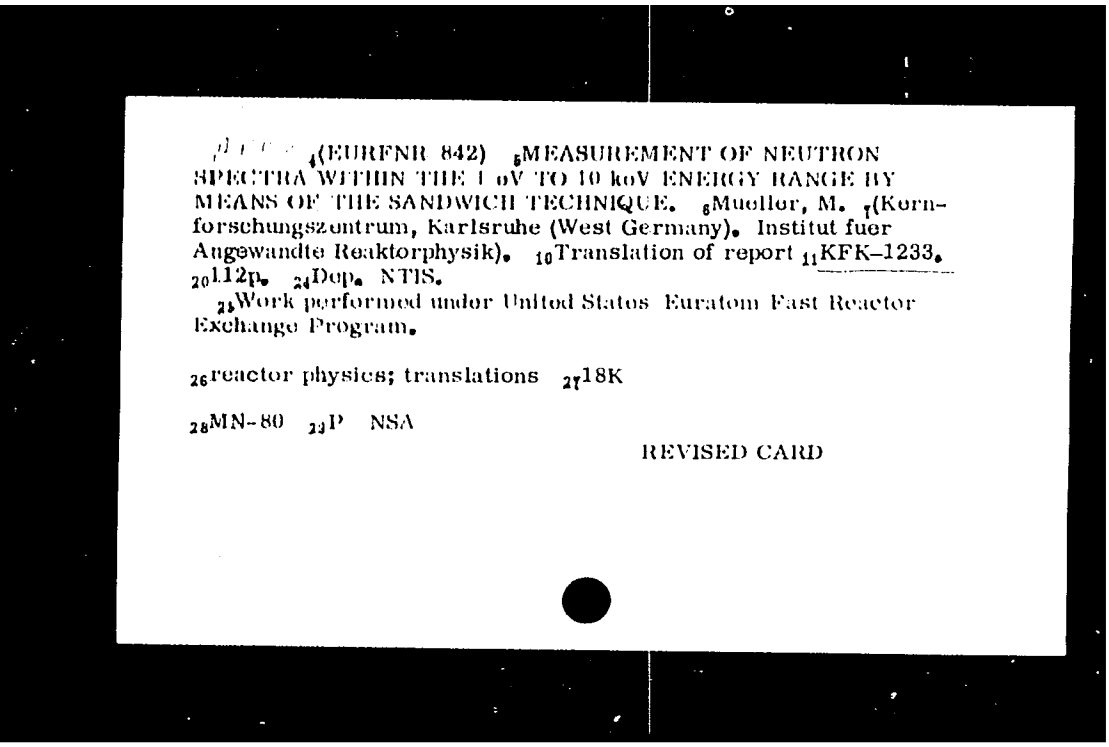

4(EURFNR 842) 5MEASUREMENT OF NEUTRON SPECTRA WITHIN THE 1 eV TO 10 keV ENERGY RANGE BY MEANS OF THE SANDWICH TECHNIQUE. 6Mueller, M. 7(Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Angewandte Reaktorphysik). 10Translation of report 11KFK-1233. 20112p. 24Dep. NTIS.

25Work performed under United States Euratom Fast Reactor Exchange Program.

26reactor physics; translations 27 18K

28MN-80 29P NSA

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4(EURFNR-067) . 5DESIGN, IRRADIATION, AND TESTING OF UO_2 FUEL PINS IN THE FR-2 CAPSULE TEST GROUP 3. 6 Gelthoff, D.; Freund, D.; Kummerer, K. 7(Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Material- und Festkoerperforschung). 10Translation of report 11KFK-1239. 20278p. 24Dep. NTIS.

25Work performed under United States-Euratom Fast Reactor Exchange Program.

26reactor fuel; translations 27J8J

28MN-80 29P NSA

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AEC-tr-(LIB/Trans-346) CHANGE IN THE THERMAL CONDUCTIVITY IN AN OXIDE FUEL DURING BURNUP. Kleykamp, H. (Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Material- und Festkoerperforschung). Translated by I. A. Mumme (Australian Atomic Energy Commission Research Establishment, Lucas Heights), from report KFK-1245. 10p. Dep. NTIS (U. S. Sales Only).

ceramics; reactor fuels; translations 11B, 18J

MN-25 NP NSA

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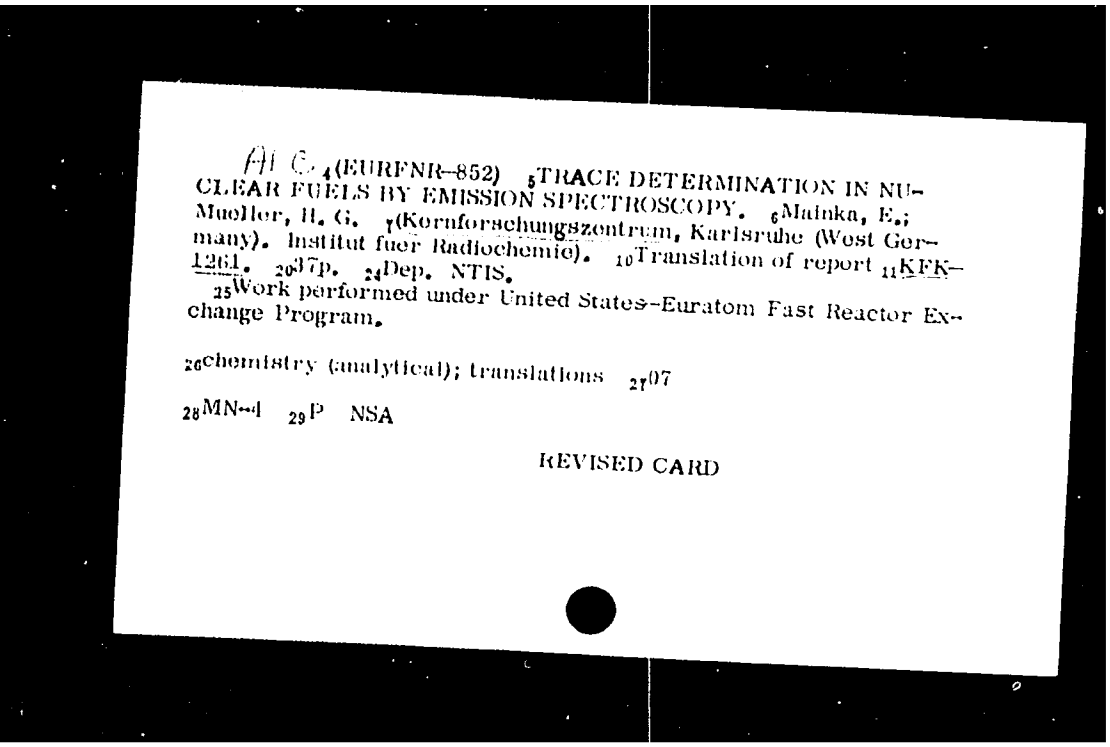

AI C. 4(EURFNR-852) 5TRACE DETERMINATION IN NUCLEAR FUELS BY EMISSION SPECTROSCOPY. 6Mainka, E.; Mueller, H. G. 7(Kernforschungszentrum, Karlsruhe (West Germany). Institut fuer Radiochemie). 10Translation of report 11KFK-1261. 20 37p. 24Dep. NTIS.
25Work performed under United States-Euratom Fast Reactor Exchange Program.

26chemistry (analytical); translations 27 07

28MN-4 29P NSA

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AEC 4(EURFNR-867) 5FAST BREEDER PROJECT. Third Quarterly Report, 1970. 6Hueper, R.; (and others) 7(Kernforschungszentrum, Karlsruhe (West Germany)). 10Translation of report 11KFK-1270/3. 20168p. 23(EUR-4571). 24Dep. NTIS. 25Work Performed under United States-Euratom Fast Reactor Exchange Program.

26chemistry (analytical); progress reports; radiation effects; reactor engineering; reactor fuels; reactor materials 2707, 18I, 18J

28MN-80 29P NSA

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